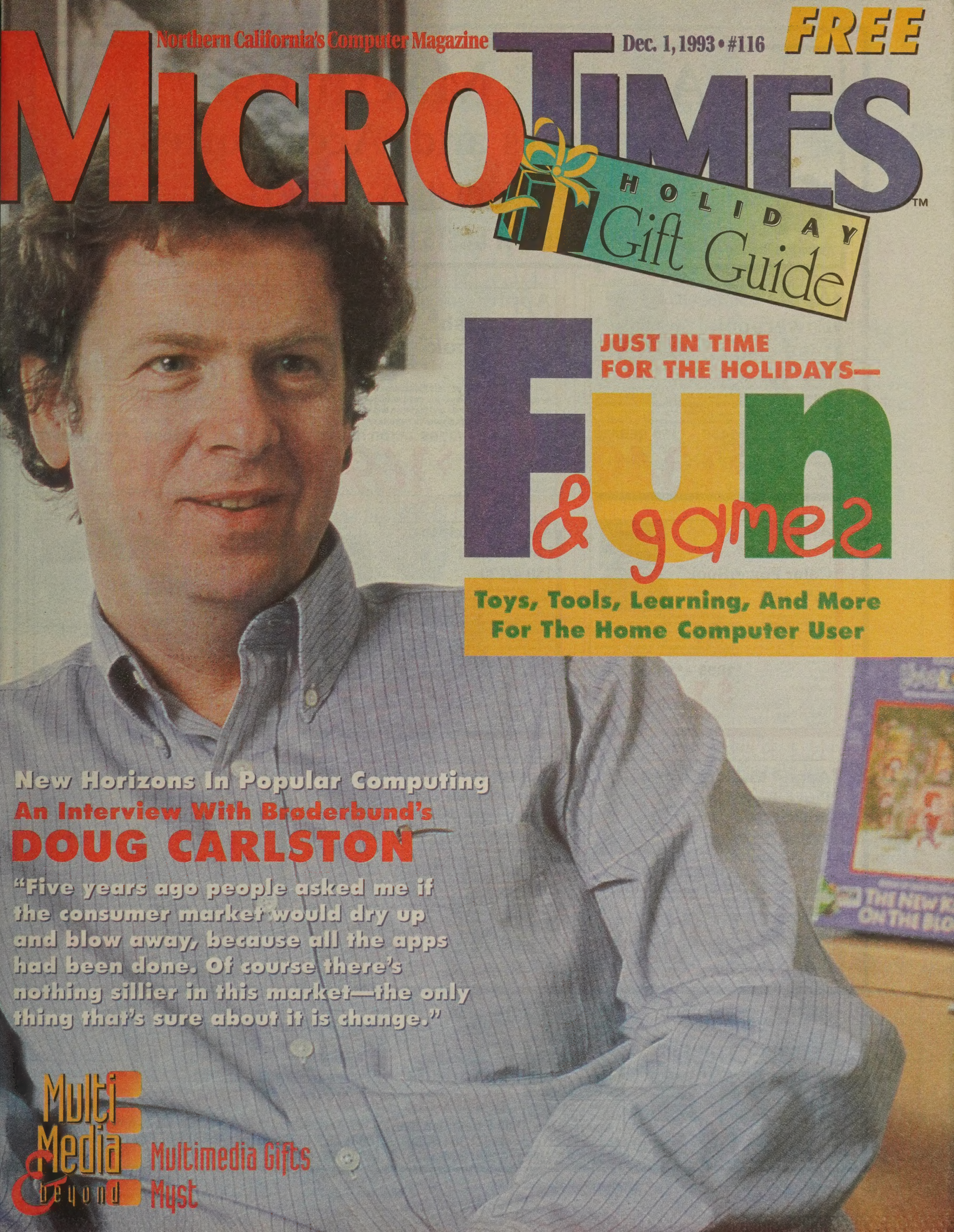

Northern California's Computer Magazine

Dec. 1, 1993 • #116

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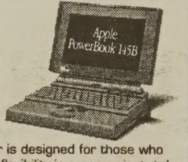

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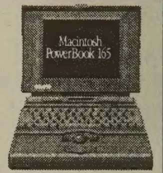

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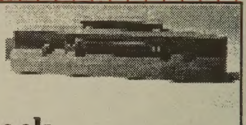

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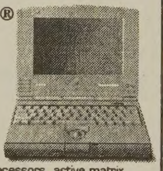

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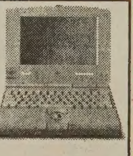

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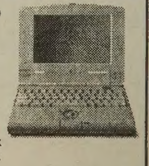

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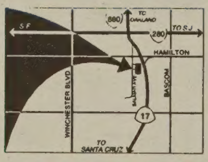

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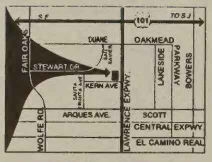

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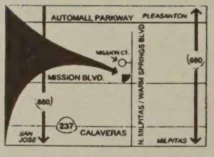

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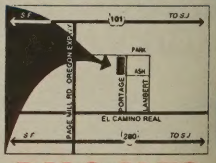

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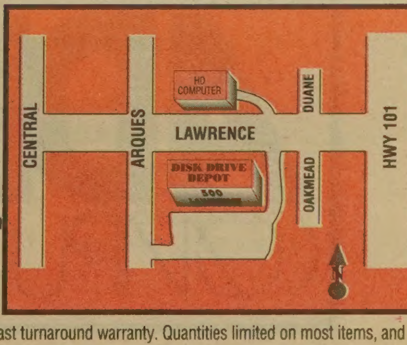

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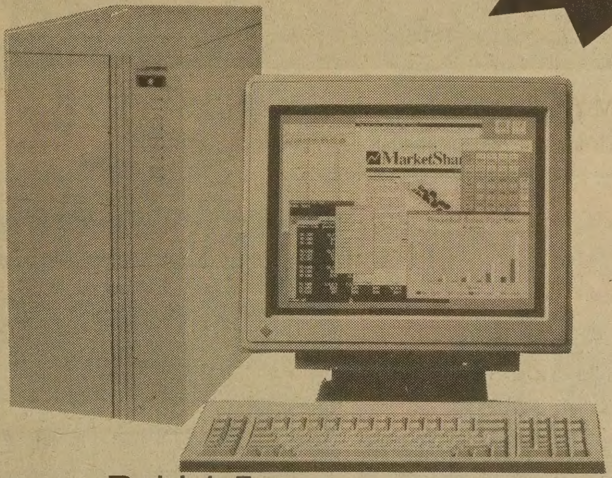

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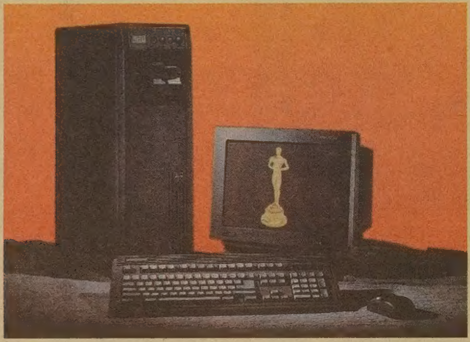

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A NOTE FROM THE EDITORS

Welcome to our first-ever Fun and Games/Holiday Gift Guide issue, in which you will find a notable lack of business-oriented coverage and a lot of information about entertainment and other products for the home computer user. We hope you find this a useful resource as your holiday shopping looms.

Stay tuned for our upcoming annual Reseller Guide issue, coming to a distribution site near you in early December, to be followed by January's annual *MicroTimes* 100 issue.

Best wishes for joyous holidays from all of us at *MicroTimes*!

—ME

MICRO MARKET PLACE

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COVER STORY

New Horizons In Popular Computing

An Interview With Brøderbund's Doug Carlston

By Mary Eisenhart
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One of relatively few companies to consistently succeed in the consumer computing market, Brøderbund has prospered with an ever-expanding number of hit software titles from Print Shop to Kid Pix to the ongoing adventures of Carmen Sandiego. Since we last visited Brøderbund in 1985, the market, the challenges, and the opportunities have evolved considerably, and in this visit with Founder/CEO Doug Carlston, we catch up on the latest.

---

just in time for the holidays

Fun & games

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HELP US CHOOSE THE NEXT

MicroTimes 100!

on page 292

In keeping with our time-honored tradition, our January issue will feature our annual list of leaders and unsung heroes who played a key role in the personal computer industry in 1993. Also in keeping with our time-honored tradition, we need your help. Tell us about interesting people you think we should include, and get the info to us by December 1.

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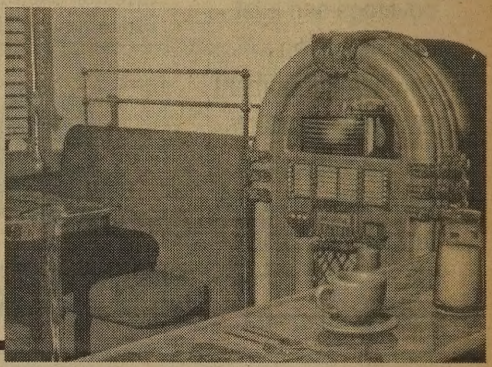

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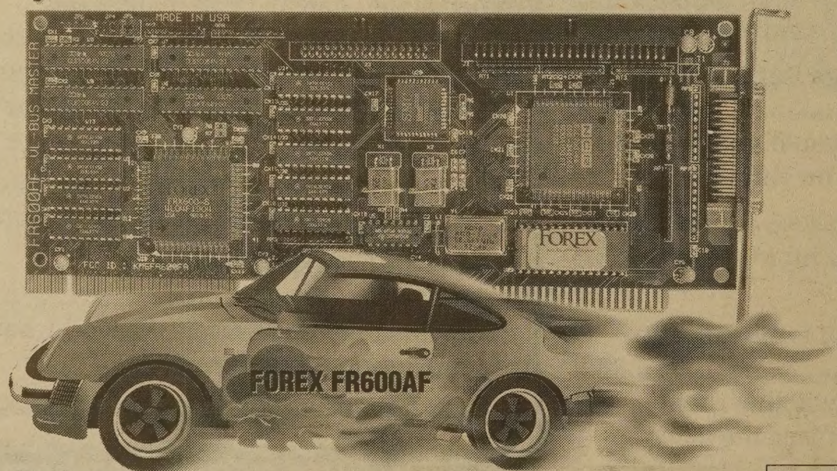

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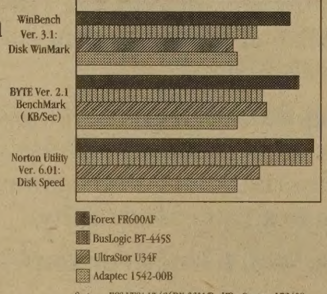

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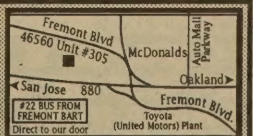

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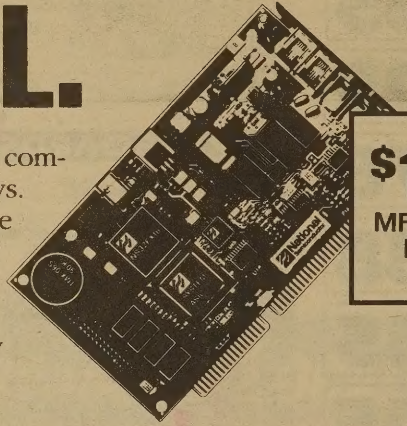

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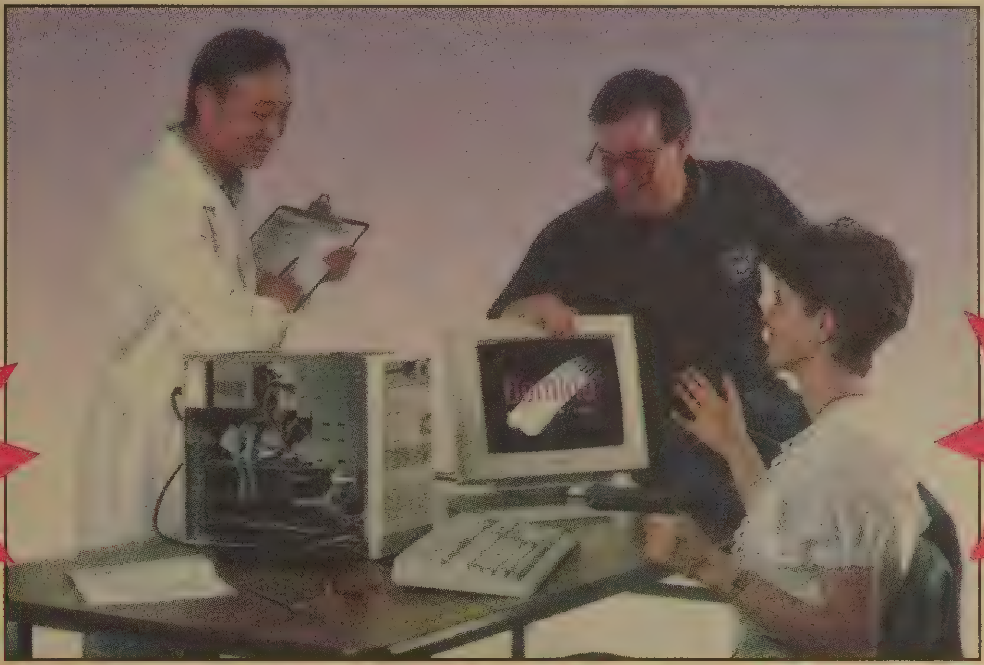

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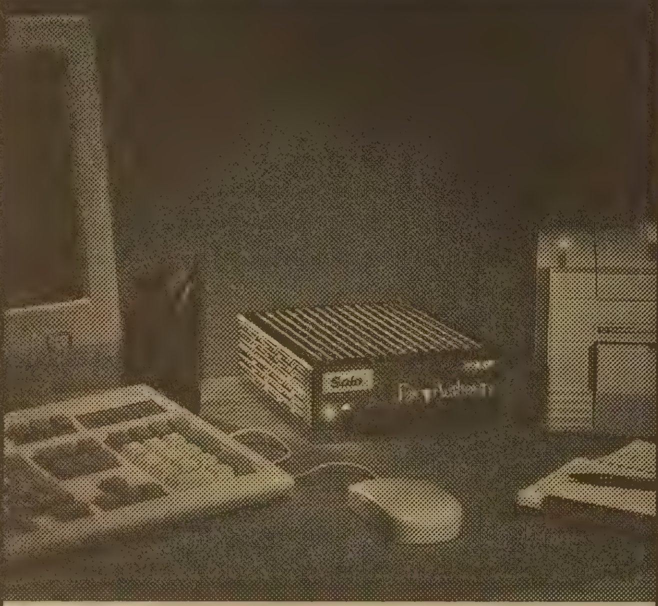

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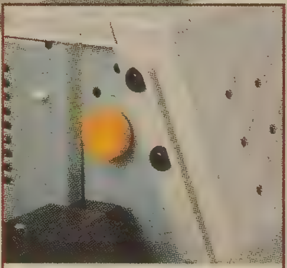

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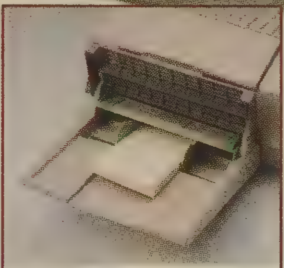

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Global Explorer Presents A World Of Detailed And Useful Maps

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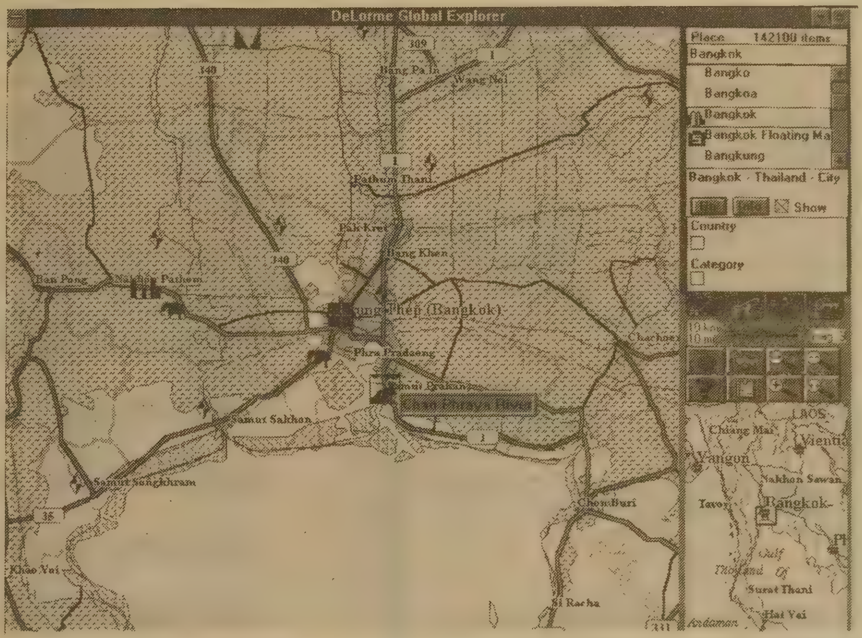
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I can still recall the sense of wonder I experienced as a child when I first realized that a map represented some part of the real world. For years I was an avid collector of maps. When computer-based atlases first appeared on CD-ROM, I was consistently disappointed. Compared to even the most basic paper-based maps, the computer-based maps in these packages were lacking in detail and conveyed very little information. Typically, these CDs were organized by country, so that micro-states like Andorra and Brunei received the same level of coverage as the United States, Russia, or China. Global Explorer, from a small map company in Maine, is the first CD-ROM-based atlas that I would consider to be more useful for the writer, journalist, or researcher than a top-of-the-line world atlas in book form. Travel agents, intelligence analysts, and geography teachers should find it particularly valuable.

Global Explorer is a straightforward Windows application. It installs about 3MB of files on your hard disk in order to access hundreds of megabytes of data stored on the CD. The screen is divided into a square map window of fixed size, a small locator map, a scrolling list box of geographic names with a text entry field you can use to search for any named location, and a set of simple control buttons. For example, the button with a picture of a key displays an intelligent map legend window—only the features appearing in the present map are shown. A button with a magnifying glass and a plus sign zooms in one level, and the button with a magnifying lens and two minus signs zooms out two levels. Beginning at Level 1, which is a world map, you can zoom in eleven levels, down to a scale of about two miles to the inch. If you printed out the entire database at this scale and pasted all the sheets together, you would have a map the size of a football field. Delorme has achieved this remarkable feat using proprietary data compression, drawing, and mapping algorithms developed over seven years at a cost of $10 million.

The maps include topographic contours, streams, roads, boundaries, and built-up areas. There are over 140,000 named locations. The map does not display latitude and longitude information, which makes it useless for most kinds of navigation. Optionally you can also display about fifty different topical icons for various "points of interest" including museums, parks, volcanoes, waterfalls, monuments, dams, bridges, religious, commercial, governmental and other buildings. At some scales, these icons severely clutter the map, so you can turn them off by clicking a check box.

A notable omission is an icon that locates the US Embassy, which is often the first thing a journalist wants to find when a world capital becomes a trouble spot. It would also be helpful if the publisher could find a way to let users annotate the map, or add their own information.

For about a hundred major urban areas, you can zoom in fifteen levels, down to fine-scaled street maps, although only the major avenues are named. Warsaw, Poland, counts as a major city, but the San Francisco Bay Area does not. I was stunned by the efficiency of the search algorithm—as soon as you start typing, the list jumps to the nearest alphabetical entry, and within a few seconds of hitting the return key you are looking at a correctly zoomed and cen-

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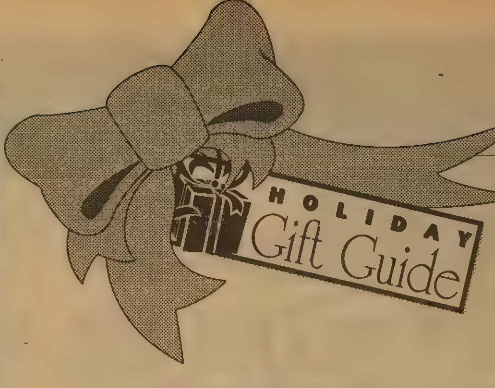

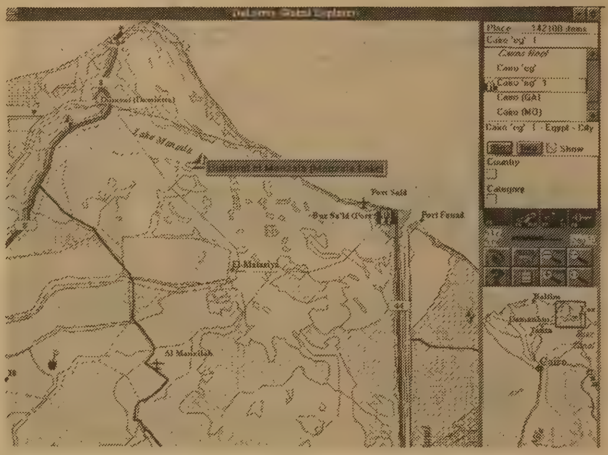

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tered view of the place you asked for. To find Auschwitz you need to know the Polish spelling, "Oswiecim." Dachau is shown only as a suburb of Munich, with no historical marker icon; presumably as the local realtors would prefer it.

> GLOBAL EXPLORER **is the first CD-ROM-based atlas that I would consider to be more useful for the writer, journalist, or researcher than a top-of-the-line world atlas in book form.**

The most serious shortcoming of Global Explorer is inadequate representation of suburban areas. You can find Irvine, Scotland, but not Irvine, California. You can find the tiny town of Pleasant Hill, Louisiana, but not the booming metropolis of Pleasant Hill, California. Several Napa Valley wineries are noted as points of interest, but Cupertino is not even in the database (an omission that better be corrected if a Macintosh version is developed). This is a typical problem in modern urban geography. Geographic source data has not kept pace with the rapid growth of suburban areas all over the world. Trying to fit all the names of new towns onto regional maps is a cartographic nightmare. In fairness to Delorme, I should note that they also publish Street Atlas USA, one of the best-selling CD-ROMs in the country.

I was pleased to see that Global Explorer's world map does not use the abominable Mercator projection, so that Greenland does not appear to be bigger than South America. Representation of the polar regions is seriously distorted on any world map; the program should have included separate polar projections for the Arctic and Antarctic, although these may only be useful to a handful of specialists. Documentation is limited to a slim reference booklet and standard Windows online Help.

By clicking on the "Clipboard" button you can copy the current map to the Windows clipboard (as a bitmap). I got excellent results printing maps in color from the graphic module of ClarisWorks for Windows, using an Epson LQ-2550 with a color ribbon. Using an HP LaserJet III the maps printed very quickly, but with the colors rendered as rather grainy and distracting dither patterns (A more patient and expert user could probably solve this problem by tweaking the printer option settings).

Global Explorer also includes a standard database of country information and statistics (the stuff you would find in the UN statistical abstracts or the CIA World Fact Book). The colored pictures of flags are particularly good. This sort of information needs to be updated periodically, so I hope Delorme will be able to offer annual new editions of this magnificent reference work. ■

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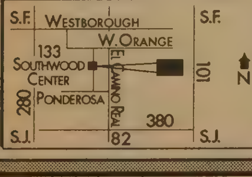

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PC Shareware: Useful Tools For The Budget-Minded Home User

And You Can Try Before You Buy

BY LENNY BAILES

When I first got into the world of personal computing, industry pundits were laughing at IBM for its foolish attempt to "capture the home market" with the PC Jr.

In those days, you didn't find software stores on every corner. If you saw a PC in an office, it probably had a monochrome amber screen, and no hard disk. In 1993, you can get a PC with full color and sound, a large hard disk, and a super-fast processor for about the same price IBM charged, then, for its 64K, one-disk-drive Junior!

These days, industry analysts think that most businesspeople who require a PC in their office already have one. Eighty percent of those people leave their PC in the office when they go home at night. If software and clone vendors are going to survive, they need to to sell to that 80% of the public—the same "home market," reborn in the world of color, sound, and today's cheap, powerful hardware, offers the industry's most significant growth area.

When I got my first computer in 1986, I didn't have the money to go out and buy "state-of-the-art" software. Desktop publishing, graphic editing, and multimedia were unknown concepts in the world of MS-DOS. Yet, inside of a few months, I was writing, drawing pictures, and publishing a small newsletter, all on the IBM PC Jr.! Two valuable resources that made this possible: a local computer user group, and a list of online bulletin board systems.

These powerful computer allies are still available in 1993. A multitude of free and shareware programs are available to those who reach out to find them. If you're an adventurous pioneer-type, the best investment you can make in personal computing is to include a modem in your system. With your modem, you can download and evaluate all of the software packages discussed in this article for the cost of a few local telephone calls. (If you're slightly less adventurous, or don't have the time to navigate the BBS world, you can order the packages discussed here at $2–5 a disk from independent shareware vendors.)

An outlay of $10–25 can bring you a word processor, desktop publisher, painting program, or an educational toy for your children. Computing power that would cost $500–1000, if you sought it in retail stores, is available in the shareware world for less than a quarter of that price! You have a period of weeks or months to evaluate programs at your leisure. If you decide you like one of the programs you test, a registration fee of less than $100 gets you full documentation, technical support, and access to program enhancements.

Of course, not all shareware programs are nuggets in an untapped gold mine. Some are clunky, unsupported by their authors, or unpredictable. The Association of Shareware Professionals is an organization that exists to monitor program quality, protecting both authors and consumers. If the READ.ME file included with a package says the author is a member of ASP, you have several guarantees: You won't be getting a "crippled" package that deliberately disables program features; the package has been tested and meets certain standards of quality; the authors won't disappear on you when you need technical support.

The following are a few recommended examples of useful productivity applications that exist in the Shareware world:

NEOPAINT

I was astonished when I discovered this shareware paint program at a recent Cow Palace swapmeet. You can use Neopaint to design posters, build an ad, or as a sophisticated retouching tool for desktop publishing. It can handle a variety of bitmap-editing chores or be used simply for entertainment.

Neopaint approaches the functionality of a sophisticated, professional Macintosh desktop tool. It doesn't need Windows and it offers 256-color SuperVGA support. You'll find the same drawing and coloring tools here that would cost hundreds of dollars in a commercial PC package.

I found myself importing scanned CompuServe GIF images downloaded from bulletin boards and spending hours replacing colors, creating collages, and viewing multiple images at various resolutions. The toolbars and menus have an aesthetic Mac-like layout that makes the editing process intuitive. An included set of brush tools and color palettes allows you to retouch images or create new ones.

I've struggled with Mac packages like Photoshop and Studio 8, delving through reams of documentation and nested menus in order to find out how to do the same things that Neopaint does fairly intuitively. Neopaint has a full set of bezier drawing tools: rotating 2-D and 3-D wireframe polygons, a node editor, pencil, quill pen, and brushes. The brushes include watercolor, charcoal, crayon, smudge/smear, clone, blend, and fill tools.

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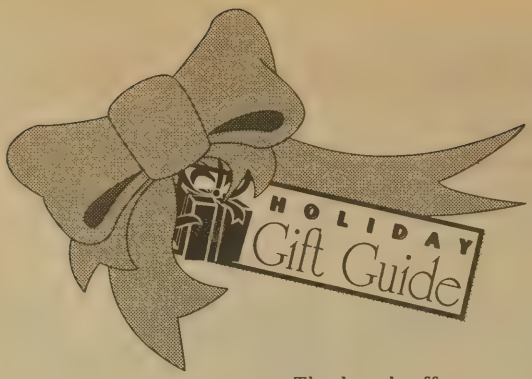

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The brush effects come in handy for making a scanned photo resemble a watercolor or oil painting. I particularly liked the watercolor and charcoal brushes. They can be used equally well to lend character to simple geometric shapes, or to retouch a complicated photograph.

The fill tool allows pixel-by-pixel replacement, flood fills, adjustable gradients, and transparent cutouts. You can make your own stamp patterns for the brushes or work with an attractive set supplied with the package.

The drawing tools allow construction and rotation of 3-D cubes, pyramids, and polygons, or 2-D polygon/ellipse/circles. You can also skew/extrude geometric shapes and create special effects including color inversion, flip, border, lattice, pixelize, darken, lighten, and fade.

You can edit color at the pixel level with a 100-times zoom control, multiple document windows, and an adjustable pixel threshold. A choice of palettes lets you colorize images or convert them to grayscale for printing. (Over 300 printers are supported, from Epson/IBM dot matrix to HP LaserJet/Deskjet, and PostScript).

Images can be viewed in any screen resolution from Hercules two-color graphics to 1024 x 768 x 256-color SVGA. The number of documents open at once is limited only by the amount of expanded/extended memory or hard disk space available on your system. Neopaint will operate in less than 640K.

PC-WRITE, V. 4.10

PC-Write is the most famous, most sophisticated shareware word processor in the MS-DOS world. It now includes a graphic-editing subsystem, context-sensitive help, and an online tutorial. Version 4.1 augments the previous function-key interface with mouse-driven menus that give access to all of the program's advanced features.

At setup time you can tailor PC-Write's level of complexity to your needs. There are basic, core, standard, and advanced feature options. You may select a global level of sophistication or adjust each pull-down menu individually. The menus are also well organized. PC-Write features that formerly were elusive can now be tracked down by simply browsing around with the mouse. A beginner will easily find simple options like margin settings, line spacing, or mark\copy\move text.

> ***If you're an adventurous pioneer-type, the best investment you can make in personal computing is to include a modem in your system. With your modem, you can download and evaluate all of the software packages discussed in this article for the cost of a few local telephone calls.***

New to v4.1 is a graphics-editing subsystem licensed from Inset Systems, Inc. The Inset add-on allows a word processor to view, edit, and print graphic images that you insert into the text. Text can be made to flow around the picture, or moved to a separate column. Inset also includes rudimentary drawing capability and fill tools. Files can be imported from PIX, PCX, TIFF, and CGM PC graphic formats. The overall effect is not as smooth as with commercial packages like WordPerfect or Microsoft Word, but it works. With its new menus and licensed subsystem from Inset, PC-Write bears a striking resemblance to WordStar, v5–7.

Programmer/author Bob Wallace has inserted a series of helpful features for people concerned with heavy text production. For instance, you can create a glossary of two- and three-letter abbreviations for commonly used words. Then you speed-type the shorthand abbreviations, fleshing them out with a single keystroke. PC-Write's "find and replace" function is very fast. The parallel-column feature makes it ideal for use by playwrights as a script editor. This version can edit ten documents simultaneously, making it useful as a multiple-draft viewing tool for fiction writers.

PC-Write's output is pure ASCII. (The package includes an automatic filter for conversion to and from WordPerfect, v5.1.) PC-Write can also be used as a text editor: to strip away non-ASCII characters in a file or to quickly reformat large chunks of ASCII text. The advanced features of PC-Write are not quite as intuitive as the basic features.

Registration entitles the user to a 60-page Getting Started booklet, plus a 260-page reference manual that should make things clear. Registration also gets you the online version of Roget's Thesaurus to complement the spelling checker.

ENVISION PUBLISHER/PUBLISHER PRO

Envision Publisher was the winner of *Shareware Magazine*'s "Editor's Choice" award in 1992. This package is quite impressive for the author's asking price.

It should be made clear that this is not a package to consider if you want to be a desktop publishing pro. However, if you're a new computer user who wants to publish a newsletter and learn something about DTP in the process, you might be quite happy with it.

continued on page 27

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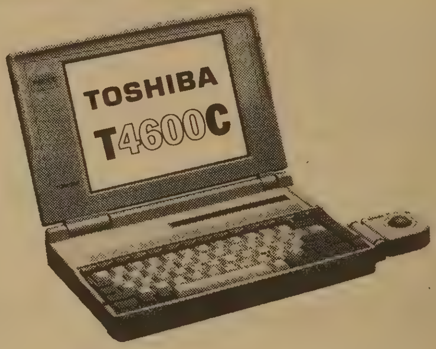

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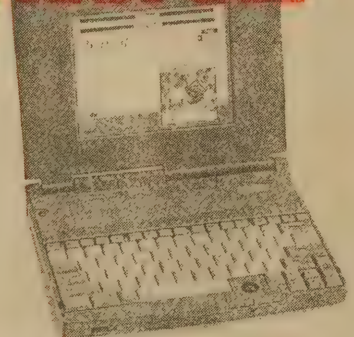

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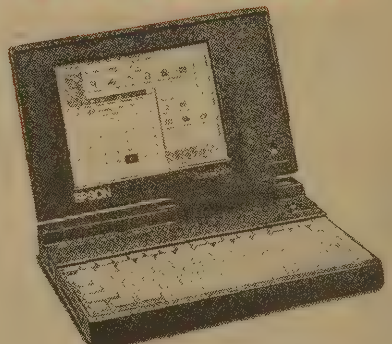

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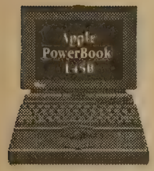
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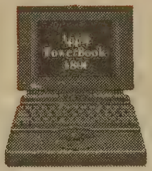
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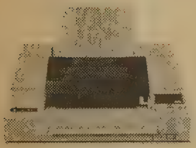

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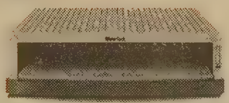

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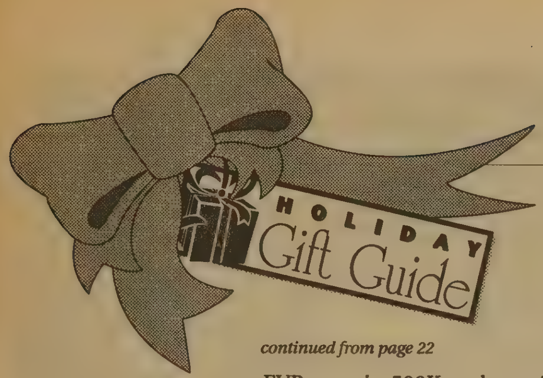

continued from page 22

EVP runs in 500K and requires only 2MB of hard disk space (It will be faster with some additional extended/expanded memory.). The trial package includes an extensive manual and tutorial document. (Registration gets you sixty-eight PostScript fonts and a series of newsletter templates.)

The dialog boxes for this program are not completely intuitive; if you're used to industry-standard programs like PageMaker or Ventura Publisher, you may need to unlearn some habits. Novices will probably be unfazed.

The documentation provides extensive support for Envision. A little bit of study will allow you to produce impressive-looking three- and four-page flyers. The package is capable of editing documents of up to two hundred sixty pages, but the text for each page must be imported as an individual frame.

Envison's strong points are a good set of drawing tools, support for underlying/overlying frames, extensive type control, and good style sheets. The weak points are a lack of keyboard shortcuts for menu-driven functions, and a somewhat rigid interface (graphics functions disappear when you select the text-editing mode, text functions disappear in graphics mode, etc.). Presently, the package imports only monochrome graphic images in the .PCX format, and word processing documents from Wordstar, PC-Write, and Total Word/Volkswriter. The company offers a second package, Envision Pro, which can import color PCX files, and includes additional templates and clipart.

Envision supports a wide variety of printers, and is compatible with Atech's Fast Font PostScript technology. If you're running an older 286 or PC-XT, this program would be ideal as an entree to desktop publishing. (It runs fine on newer, faster machines, as well.)

PLUG-IN FOR WINDOWS

This add-on to Windows' Program Manager is a big hit among members of the San Francisco PC User's Group. Plug-In adds a series of options to the Program Manager's set of pull-down menus.

On the File Menu, you gain the ability to more easily manage additions and deletions of programs, application groups, and designated icons. You may set up multiple startup folders and "two-platoon" your Windows groups, by hiding some from the menus and allowing others to remain visible.

Additions to the Options menu include a "System Info" display and a "Save Settings Now" command. "System Info" shows you everything you ever wanted to know about Windows resources and system memory. The chart of resident Windows applications and the memory they use may be useful for programmers and system consultants.

The additional "QuickRun" menu displays a launch-list of DOS or Windows applications. You can

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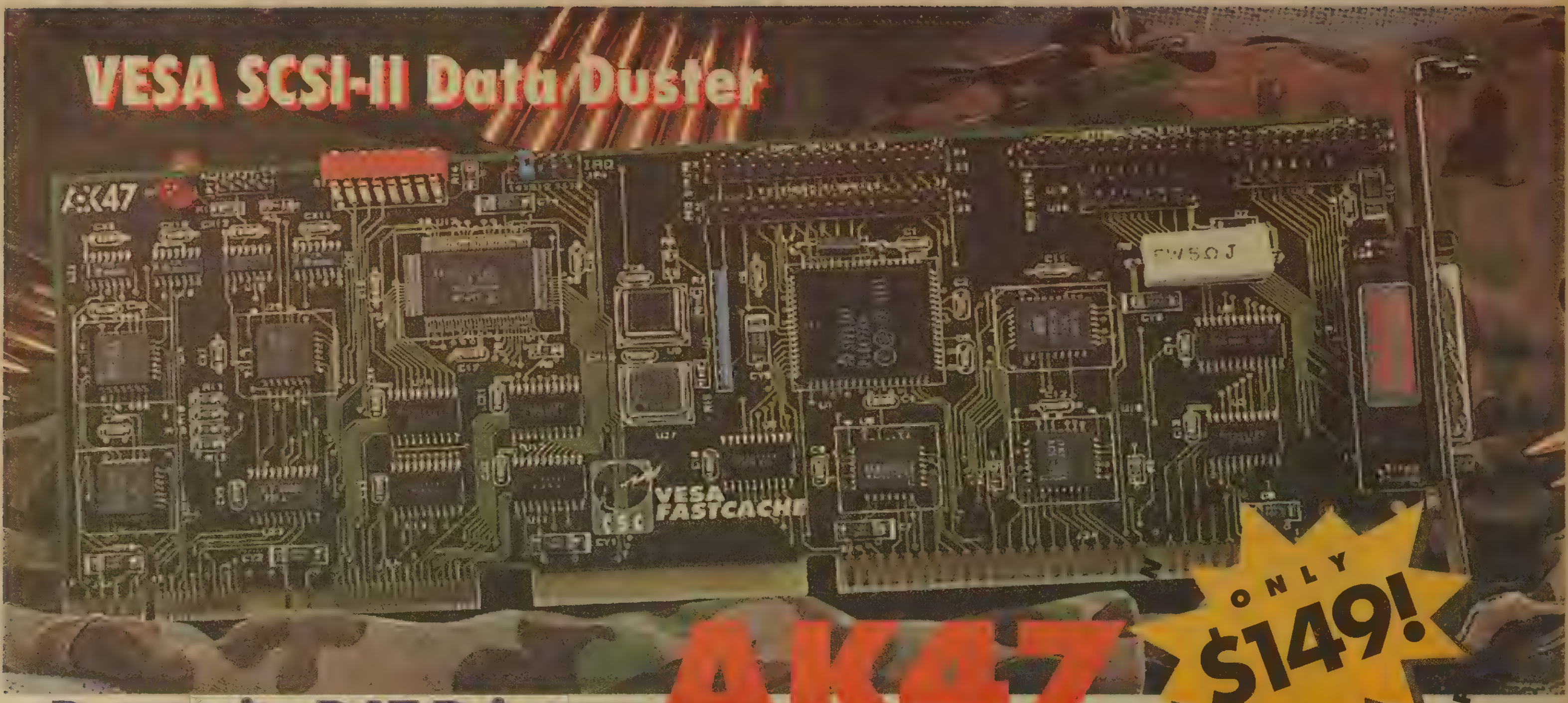

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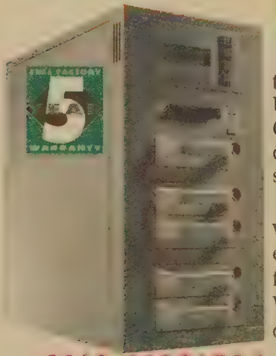

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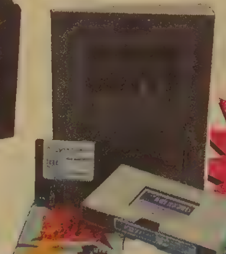

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use the launch list to start programs quickly, or to run internal DOS commands. (For instance, you might set a "Backup" menu option that automatically archives a directory with the DOS COPY command.) "QuickRun" also let you "activate" and "deactivate" Program Manager groups. If you have too many of these, you can select alternate sets to remain visible on the desktop.

Plug-in also makes numerous cosmetic changes to the desktop, allowing you to select from different sets of cursors and program icons. Its most useful aspect for Windows beginners is the time it will save them from wading through Program Manager's convoluted menus. Plug-in installs or deinstalls itself seamlessly. It will not get in the way of standard Windows operations.

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Bert's Christmas/Bert's Dinosaurs: These VGA coloring books include sound and printed captions that identify the names of all the objects in the sketches. Large and small versions of objects can be scaled and pasted into the drawing to compose a picture. Children may then pop up a text-editing box and write a story to go with the picture. Both the picture and the story can be printed out on any standard printer. The Christmas package includes snowmen, sleds, houses, stockings, etc. and the Dinosaur package includes a wide variety of different dinosaurs. ■

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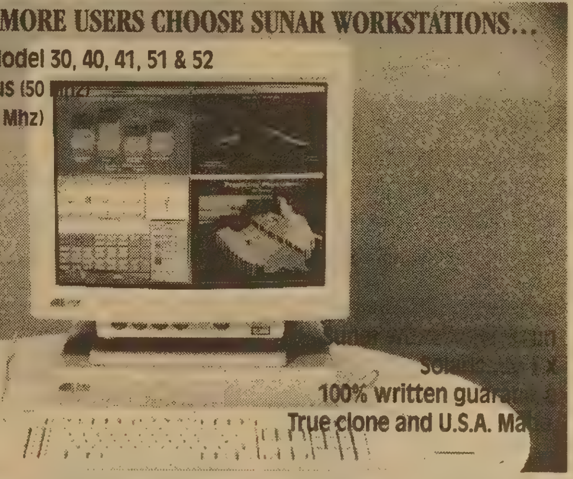

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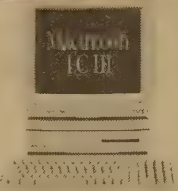

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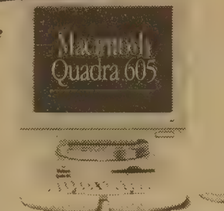

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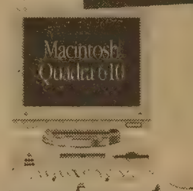

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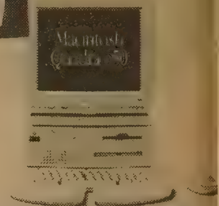

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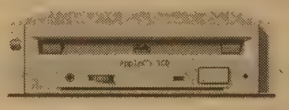

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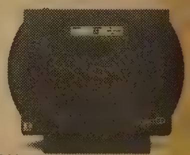

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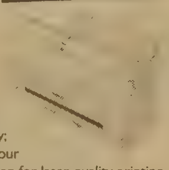

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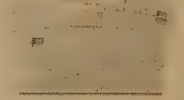

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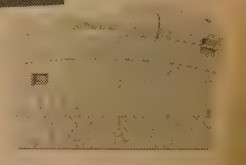

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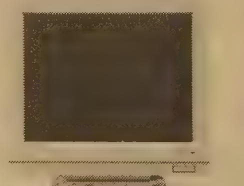

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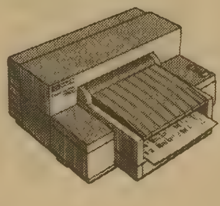

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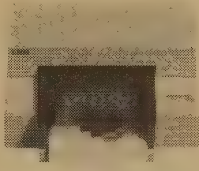

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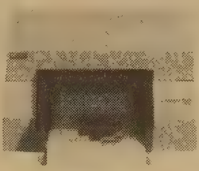

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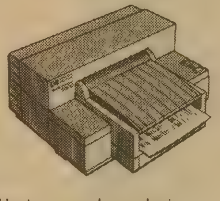

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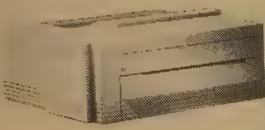
It fits budgets as well as it fits desktops



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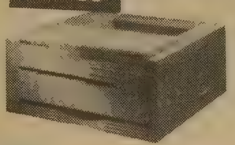

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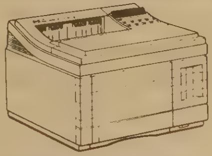

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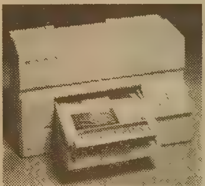

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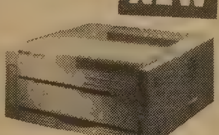

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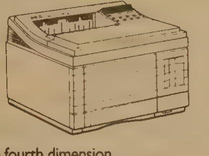

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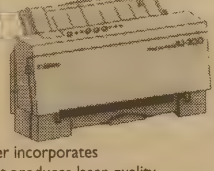

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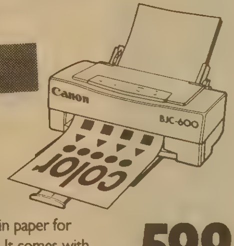

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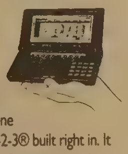

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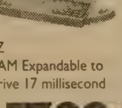

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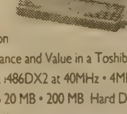

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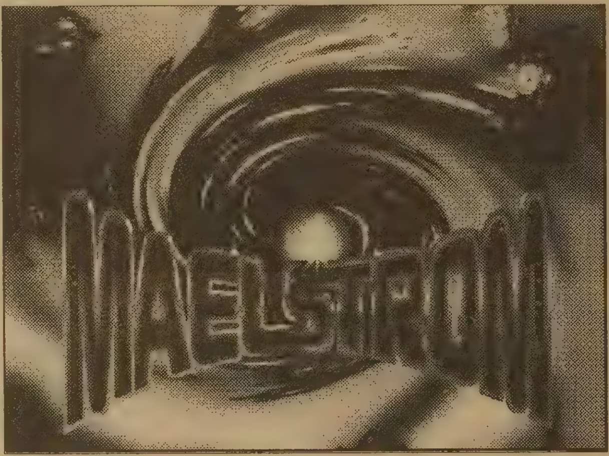
Maelstrom And Beyond

Carrying The Torch For Mac Shareware

BY KEVIN M. SAVETZ



Maelstrom is a successful and addictive shareware game—for the Macintosh. Its author, Andrew Welch, is a 22-year-old photography student at the Rochester Institute of Technology.

Welch started working on Maelstrom around August 1992. "Maelstrom," he explains, "was my attempt to prove to the naysayers that fast-action, pulse-quickening arcade games are a natural for the Macintosh."

Over the years, the Mac has had trouble being accepted as a game machine. This is something of a chicken/egg problem says Welch. "Many DOS publishers snubbed the Macintosh game market by providing terrible ports of their DOS games, and then wondered why the sales were abysmal.

"Macintosh users are an indignant bunch, who expect software to meet certain standards. Making them feel like they were using a DOS machine was one of the few first-class tickets to failure in the fledgling Macintosh game market."

So he got to work. Although Maelstrom was Welch's first attempt at writing a game, he has been doing other programming projects for years. His previous ventures included a variety of commercial applications, freeware and shareware programs, including FlashWrite, Easy Envelopes Plus, and about fifteen others.

For a long time, he'd wanted to write games, and specifically to revamp the classic Asteroids game. In Maelstrom, he created one of the most popular Mac shareware games ever, and won the 1993 Shareware Industry Award for best Macintosh program.

"I set out to try and write a fun, fast-paced action game to please my own secret desires, and to say 'Look here, it can be done: stop festering in excuses.'" Welch notes that the development of Maelstrom was "truly a fly-by-night affair that took place entirely on America Online. I'd get new artwork to put into the program, add a few features, and send it out electronically to the play testers to see what they thought of it. This happened numerous times; the game developed in fitful steps until finally, mercifully, it was ready for public release."

Collaborating online has its advantages—allowing a variety of far-flung people to playtest the game and offer opinions. The downside, Welch points out, is that he's never met in person any of the people who were involved with Maelstrom.

Although he has no way of knowing how many people are playing Maelstrom, Welch says people have been very supportive in paying the game's $15 shareware fee. "Regardless of the returns financially, I consider Maelstrom a success in my own terms: I think it is an enjoyable game, and I've finally got my version of Asteroids running on the big screen."

Maelstrom's success brought on an ironic twist: "I've even got quite a few requests for a DOS version of Maelstrom, which shows that there is some justice in this world."

Welch has even had offers from several game companies to make Maelstrom a commercial game, but has declined the offers. "I've decided against it for several reasons, not the least of which is that I think we need decent shareware games for the Mac. I also truly enjoy 'marketing' the game myself; the old maxim of too many cooks spoil the brew is definitely true. My only regret is that Maelstrom will reach fewer people as shareware than it would if it were distributed commercially."

Since its initial release, Maelstrom has evolved though numerous revisions and changes, but Welch considers it finished, only releasing new versions for bug fixes. "There comes a time when you must consider a work finished, put it behind you, and move on to other projects. I definitely plan to continue issuing updates to Maelstrom if any bugs are found, but other than that, I think it is time to declare the game done and move on. Otherwise I'd spend all my time tweaking Maelstrom instead of doing something more intriguing such as working on a new game."

What about the next game? "I really can't give anything about it away, because I'm not exactly sure myself what my next project will be. I've been working hard to build a killer set of core routines that will not only make my next game really cool, but will also allow me to churn out games much

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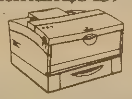

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Over the years, the Mac has had trouble being accepted as a game machine.

more quickly. Once those are done, the game that gets done is up in the air."

TECHNICAL DETAILS

Maelstom is written in Think C, composing eigtheen thousand lines of C code and nine thousand lines of inline assembler for the speed-critical portions of the game.

Welch is a self-taught programmer. "I've taught myself far more than I've ever learned through a structured environment such as the classroom; it's a lust for knowledge and excellence that drives me. I like to blaze my own trail; others may do far better taking formal classes. It really depends on your inclination. I wouldn't necessarily recommend this approach to anyone else, it depends on your personality.

"The most time-consuming part of programming was getting the animation done correctly, because there was no source I could go to in order to find out how to do it right. It was a lot of trial, error, and timing. There were a lot of pieces that had to fall into place before the game itself was playable. That was the most frustrating part—a very high curve before I could even see if Maelstrom was turning out OK."

WHITHER SHAREWARE?

Why write shareware?

"When I was first exposed to the idea of shareware, I was quite impressed. From the practical side, the entrepreneur in me was awakened to the possibilities: here was a way to beat the system, venturing out with a little luck and a lot of hard work to pave my own way. I also looked on existing shareware authors with a degree of respect, because if you depend on the honesty of others for your livelihood, you must have substantial faith in human nature—it goes with the territory."

Welch adds, "Idealism wasn't the only driving force that me into the shareware market. I didn't have much choice. It is quite hard to get a program written—let alone published—with little experience behind you. Shareware was a way for me to learn, create, and market all at the same time." He finds the shareware market reminiscent of open markets in Mexico, where vendors sell their hand-made wares in improvised booths. Customers must hunt through a myriad of products to find a diamond in the rough, with no slick advertisements or other inducements pointing the way. "I found this somehow refreshing, dealing with an individual instead of a trademarked logo, and taking active participation in barter rather than being spoonfed information from ad agencies. Quality

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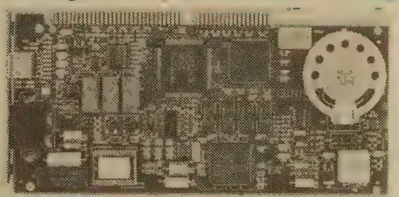

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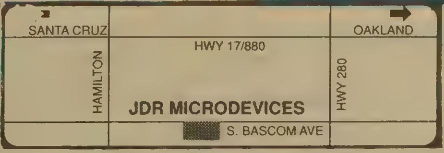

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does not depend on the packaging, but rather on the product."

Welch's first shareware products were typefaces, not programs. "I enjoyed designing typefaces, and the fact of the matter is that I couldn't do much more; I simply didn't have the programming know-how to do anything significant. But then I decided that I wanted to make a complete package wrapped around the typefaces I created, so I stumbled into programming quite accidentally.

"The typefaces actually went over quite well in my opinion—but then again if I got a letter a week I was ecstatic, because it meant that I had succeeded in reaching out to the world at large. Every letter was a success, because it meant that someone had judged my work as worth paying for on their own terms, after using the product. This is akin to reading a book and then sending the author payment if you deemed it worth your while; quite a different world indeed!"

Will shareware prosper as an industry? "I think there will always be a place for shareware, just as there will always be a place for the farmer's market and mom-and-pop businesses."

"Shareware is an excellent proving ground for the budding programmer, and it is also a real grass-roots method of doing business. You are very close to your customers, and you have complete control over your product and prosperity."

Welch's "rules" for success in the shareware market are simple: "One—provide a quality product. This seems like common sense, but I see many programs out there that are complete garbage, and the author is asking $25 for it! Then he or she is disappointed when it doesn't go over well.

"Two—maintain the product by listening to what people want and improving it. People will be much more likely to support you if they see that you are actively working on improving your products. Free updates are a must."

"Three—make it easier for the person to register. I think the reason many people don't register for shareware programs isn't because they are dishonest; they just don't get around to it for one reason or another. With the number of things we all have to deal with in our daily lives, this is understandable."

DATA HIGHWAYS AND BEYOND

Welch believes that as we move toward being linked on a worldwide computing network, the electronic method of distribution will be a much more important player. This in turn could benefit shareware authors, even at the expense of commercial software producers who will be less able to rely on packaging and advertising.

"A person at home can tap a few keys to find a program that suits their needs, use it for awhile to verify that it really does work

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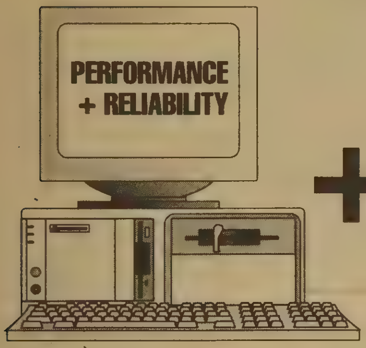

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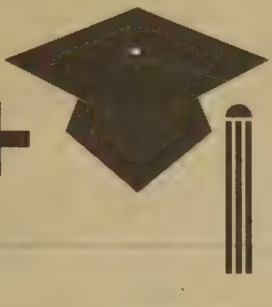

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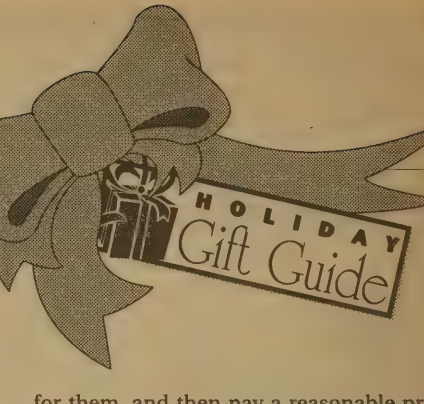

for them, and then pay a reasonable price for the product because of the low-overhead nature of electronic distribution," Welch speculates.

Data highways, though, are just the beginning. "Our abilities are infinitely more advanced than our capability to express them—there is always a barrier between what we think, feel, and imagine and what we do, express, and create. Perhaps it's nature's way of keeping us humble.

"For me, the Macintosh was a tool that broke through some of these barriers, creating a connection between man and machine that eliminated some of the awkwardness I'd felt when working on other computers. With other machines, I was always painfully aware that I was using them; with the Macintosh, I forgot about the tool and concentrated on the ideas.

Welch has even had offers from several game companies to make Maelstrom a commercial game.

"Ultimately I believe that computers will be literally linked directly to our minds, eliminating most of the physical barriers altogether. Our evolution and progression is no longer in ourselves, it is in our knowledge and consequently in our tools. Since it seems our primal stuff will not change much or soon—and since we are a notoriously impatient beast—my best guess is that we will continue to improve and integrate the tools we use, to a point that they will become a literal extension of our minds." ■

Copyright © 1993 by Kevin Savetz. Kevin is a computer journalist living in Arcata, California. All he wants for Christmas is 16 megs of RAM. He can be reached via electronic mail on the Internet: "Savetz@rahul.net"; on America Online: "Savetz".

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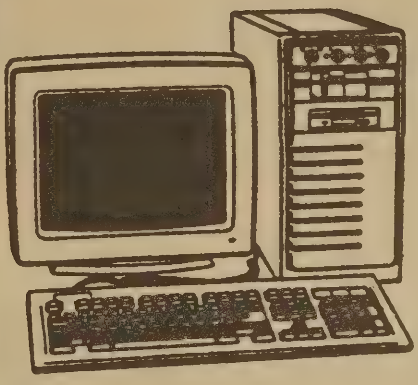

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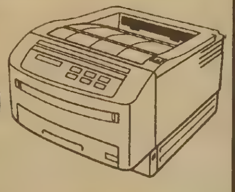

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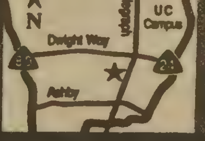

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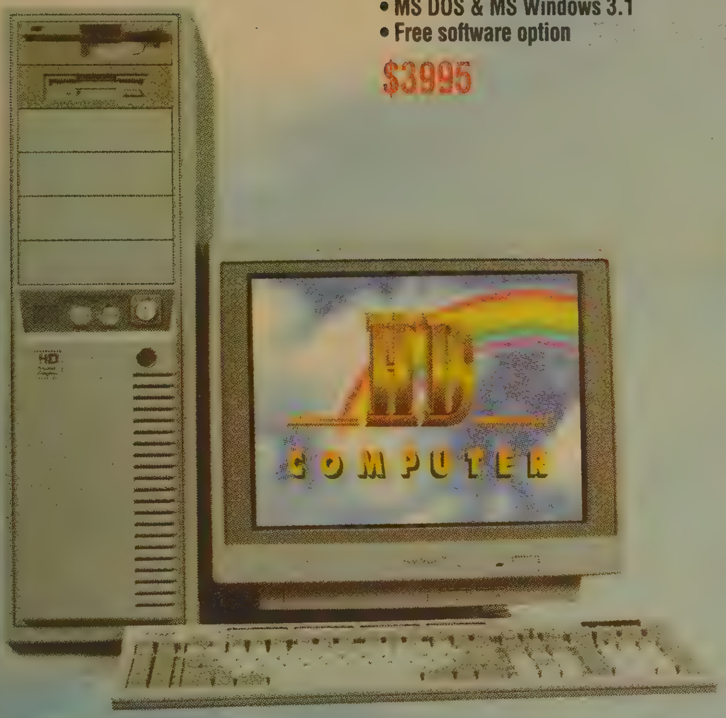

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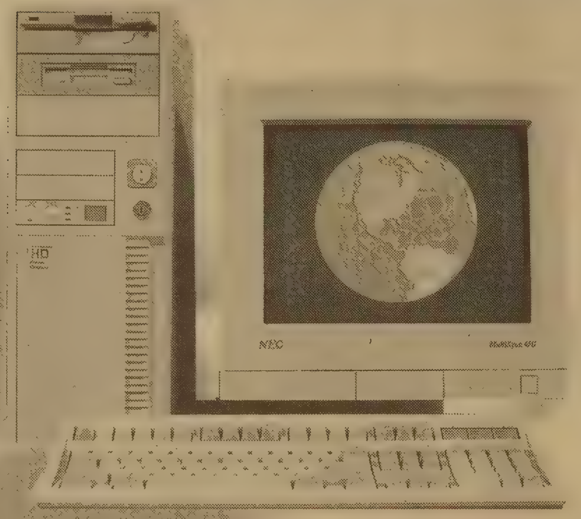

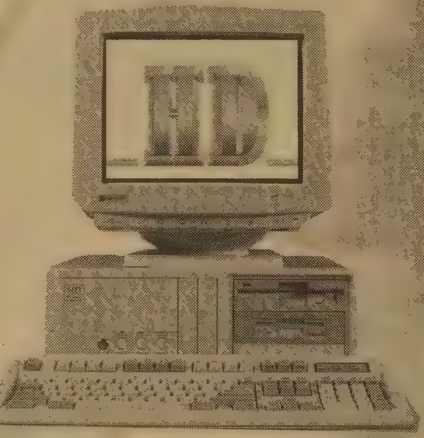

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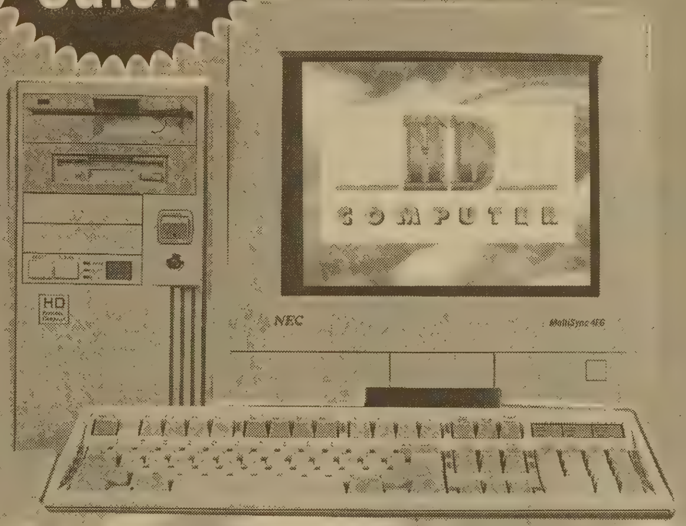

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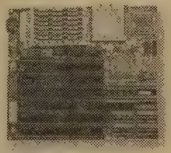

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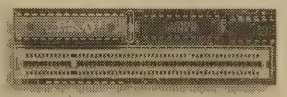

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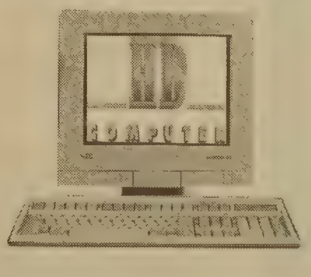

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TAPE BACKUP	SCSI HDD	MICROSOFT	COMPUTER ASSOCIATES SOFTWARE	SPINNAKER SOFTWARE
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HOLIDAY
Gift Guide

1993 Stocking Stuffs For Amiga Buffs

Gift Ideas To Fit Everyone's Budget

BY DOUGLAS J. NAKAKIHARA

The Amiga poses a unique problem for the computer-gift giver. Because the market is dominated by the IBM PC world, it is often difficult to find Amiga-specific products. You just can't go down to the corner computer store and get Amiga software. However, because in a certain sense computers are computers, there are a lot of things that can be used with all computers, regardless of platform. Each dollar range in the following list will begin with non-platform-specific items and then work their way into Amiga-specific gifts.

Since anyone using the following list may not be an Amiga expert, I'm going to try real hard not to list very specific things like an A2232 Multiserial port adapter. However, if you can find some way to fit a Video Toaster into that stocking, please do so! (No, it is not made by Sunbeam.)

UNDER $20

Protection items head up this price range. Although you can get keyboard and CPU covers made specifically for the Amiga, you can usually get by with the standard one-size-fits-all variety. Don't forget the printer! I recently purchased a keyboard, CPU, and printer set for under $10 at one of the "club" stores. I didn't think I could use the printer cover, because it was made for a dot matrix printer, but it fit perfectly over the top of my HP LaserJet 4!

Mouse pads are always a cool gift. These are adorned with everything from Star Trek pictures to Patrick Nagel-type paintings. I've even seen one that's clear—you can put your own drawing or photograph in it!

If you want to be real practical about your gift, blank disks are great! Check out some of the computer supply advertisers in *MicroTimes.* They offer some super deals on bulk purchases of generic disks, usually in lots of twenty-five, which offer savings of over half the price of name-brand disks. I use generic disks nearly exclusively and have had very few problems. The Amiga uses the same 3.5" disks as PCs, but make sure you get the correct density. Low-density disks are often referred to as 1MB disks and high-density ones are called 2MB (despite the fact they don't actually hold that much data). Don't forget to buy the labels too, if they are not included. In fact, disk labels by themselves are often a well-received gift.

A company called Paper Direct (1-800-A-PAPERS) distributes a great catalog of various paper and label products. You can make eye-catching letterhead, brochures, business cards, direct mail pieces, presentation sets, certificates, disk and tape labels, and much more. They even have a club that you can join—they periodically send you samples of the new papers that they sell. Most of their product line is directed toward those with laser printers, but much of it will still work on a dot matrix printer.

Speaking of dot matrix printers, replacement printer ribbons can make a good stocking stuffer. These wear out over time and it isn't until it's practically unreadable that anyone thinks to replace the ribbon. Believe me, a new printer ribbon can make a world of difference. Another good idea is a printer stand that allows tractor-feed paper to sit below the printer.

Repetitive motion problems like Carpal Tunnel Syndrome are much discussed lately and have paved the way for the introduction of numerous preventative accessories. These include keyboard wrist rests, foot rests, and even mouse wrist rests. To reduce eye strain, a multitude of glare screens that attach to monitors are also being marketed.

Other ideas include screen cleaners, compressed air (great for cleaning a mouse and keyboard), disk storage trays, and disk drive head cleaners.

Keyboard skins are also available, but you'll need one specifically made for a particular Amiga model. These form-fitted covers are so thin and flexible that you use the keyboard without removing them. A excellent safeguard for people who eat and drink while using their Amiga.

DigiPrint, Inc. makes a cool device that will adapt an IBM PC bus mouse for use with an Amiga. They also make an adapter for IBM PC joysticks. It may come as no surprise to you, but the IBM PC world has many more choices and higher quality products for these type of input devices.

Books can also be an appreciated gift. No one should be without one of the AmigaDOS reference books, but there are also many more that cover more specific subject matter like making videos, disk drives, programming, etc. A plethora of video tapes are also starting to appear, especially for—appropriately enough—video-related topics. Amiga animations have also been the subject of a number of video tapes.

$20 TO $50

A comforting answer to a tangled web of extension cords and 1–3 electrical adapters is a surge-protected power strip. Although you may find some inexpensive ones that say they are specifically made for computers, these are not the best to get. Purchase one whose manufacturer guarantees the computer will not be fried in the event of a deadly electrical surge. These cost a little

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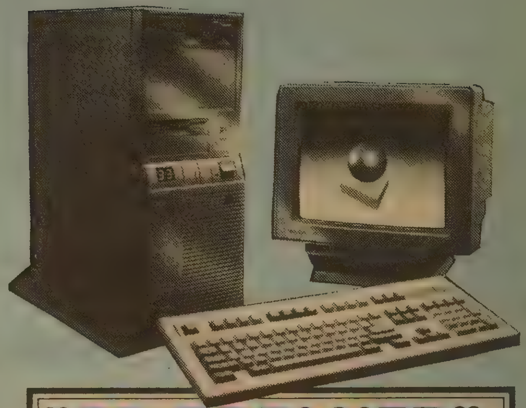

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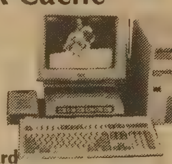

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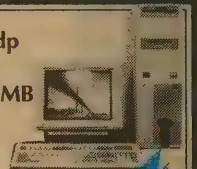

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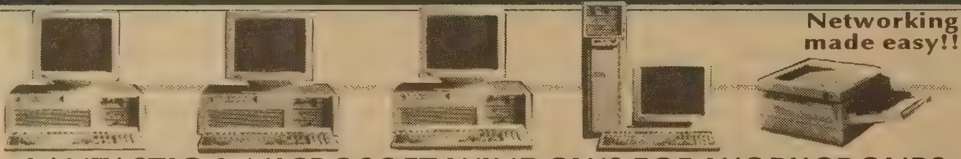

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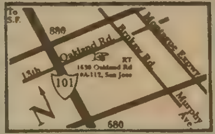

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PRICES SUBJECT TO CHANGE W/O NOTICE NOT RESPONSIBLE FOR TYPOGRAPHIC ERRORS more, but it's worth it. Why risk thousands of dollars of equipment on a $10 power strip? Some of these devices even protect against surges in the phone line. Power control centers that sit underneath the monitor are great, but only use them in conjunction with a good surge protector.

Computer tool kits are extremely handy. No only do they eliminate a trip out to the garage, they provide a lot of special tools for working on a computer. Furthermore, normal screwdrivers are magnetized and should not be used on a computer; make sure the toolkit you select does not contain magnetized tools.

With the discovery of multimedia by the IBM PC world, there are several companies that make small self-amplified speakers that will also work great with any Amiga. For those that don't have a monitor with built-in stereo speakers, these can be very nice. Of course, the fidelity won't be spectacular. If you need high-quality audio, you'll have to spend several hundred dollars.

Another cool gift is a floating monitor stand. These connect to a desk and allow the user to swivel the monitor 360 degrees, as well as up and down. The price of these can vary widely; however, I have seen them as low as $45. Besides this type, there are other types of monitor stands, as well as various CPU holders, keyboard trays, document holders, etc., which would make fine presents.

A gift that will be remembered a whole year is at the lower end of this price range—a subscription to an Amiga-specific magazine. It is really surprising to me the number of Amiga users who don't subscribe. In the US there are really only two to choose from, *Amiga World* and *Amazing Computing*. Both of these are excellent publications and have been covering the Amiga for many years. Each has its own style and offers its own slant to Amiga coverage, so a subscription to both is by no means overkill.

If your Amiga lover is into video, *Video Toaster User* would be a great choice—even if he or she doesn't own a Toaster. Visit your local bookstore and buy a copy. As with all magazines, there will be a card you can send in for a subscription. You can wrap the copy you bought with a note about the subscription.

Is the Amiga keyboard looking a little ratty? Consider a replacement keyboard. These are available for all models, including the ones with the keyboard imbedded in the CPU case, the A500 and A600. A new mouse is also a great gift. These creatures get used quite a bit, and there is nothing more frustrating than a malfunctioning rodent. Also in the input-device family are joysticks. Think of the hugs and kisses you'll get when your Amiga lover attains a new high score, all due to the new joystick they got for Christmas.

If your Amiga lover has a IBM PC emulator card and is constantly complaining about having to use two monitors, consider purchasing a monitor switch box. Generally, you'll want to get a switch box that uses what's called HD15-pin connectors. (I've never seen one that uses the non-standard Amiga 23-pin variety, though you could hack a 25-pin one.) Don't forget to get the cables too.

Commodore makes a neat little device called the A520 that makes it possible to connect an Amiga to any standard TV. This is a very inexpensive way to record Amiga animations on video tape.

Of course, your Amiga aficionado can never have enough games, and there are many to choose from. I suggest visiting an Amiga dealer and having someone there recommend a title. They may be able to pick one that suits someone's particular tastes.

$50 TO $99

It's hard to believe, but you can actually get a 2400bps modem for under $100. These are not lightning fast, but are more than adequate for most situations. You might be able to find a 9600bps one in this price range too.

Although, the Amiga is a multitasking computer, programs can still be unavailable when printing since your computer can generally send data quicker than a printer can print it. A easy solution to this is adding an external print buffer. These are not platform-specific peripherals, so generally any IBM PC-type will work with an Amiga. The only thing you have to really worry about is if the printer uses the parallel or serial port.

If your favorite Amiga user still has only one floppy drive, consider a second one. A high-density drive should be selected if the Amiga is running DOS 2.1 or greater. These cost around $100, with normal density drives slightly cheaper. All Amigas have external drive connectors so external models are nearly assured to work.

Although, I've tried to stay away from specific software titles, there are a few programs that are a must for any Amiga owner. Here's a list of some of my favorite titles available in this price range. For a good paint program, Electronic Arts' Deluxe Paint IV (get the AGA version if the Amiga is a 1200 or 4000) is a standard among standards. Audio editing doesn't get any better than Oxxi's AudioMaster IV. If a great word processor is on someone's list, New Horizons' ProWrite and SoftWood's FinalCopy II are available in this price range.

For creating super animations with very little skill required, try either Virtual Reality Labs' VistaPro or Natural Graphics' Scenery Animator. If the Amiga has a hard disk, backup programs from Central Coast and Moonlighter, Quarterback and Ami-back, respectively, are superb. Both companies also make hard disk utility programs, Quarterback Tools and Ami-back Tools, which are indispensable.

WHERE TO BUY

Your nearest Amiga dealer is the best place to make your purchase. Several advertise right here in *MicroTimes*. Most general computer stores cater to owners of IBM PCs or Macintoshes, and are therefore not usually able to field questions on the Amiga, even though a lot of the computer hardware they sell will work with one.

If you are not near a dealer, you must rely on mail order. If you utilize this route, you should remember a few things: always pay with a credit card; get the delivered price (i.e., price including tax, shipping and handling, credit card fee, etc.); write down the person's name you are talking to; and ask about the return policy.

Obviously, there are millions of other things you could buy as a gift, but the above list will help you satisfy that picky Amiga lover. Happy holidays everyone and a happy new year! ■

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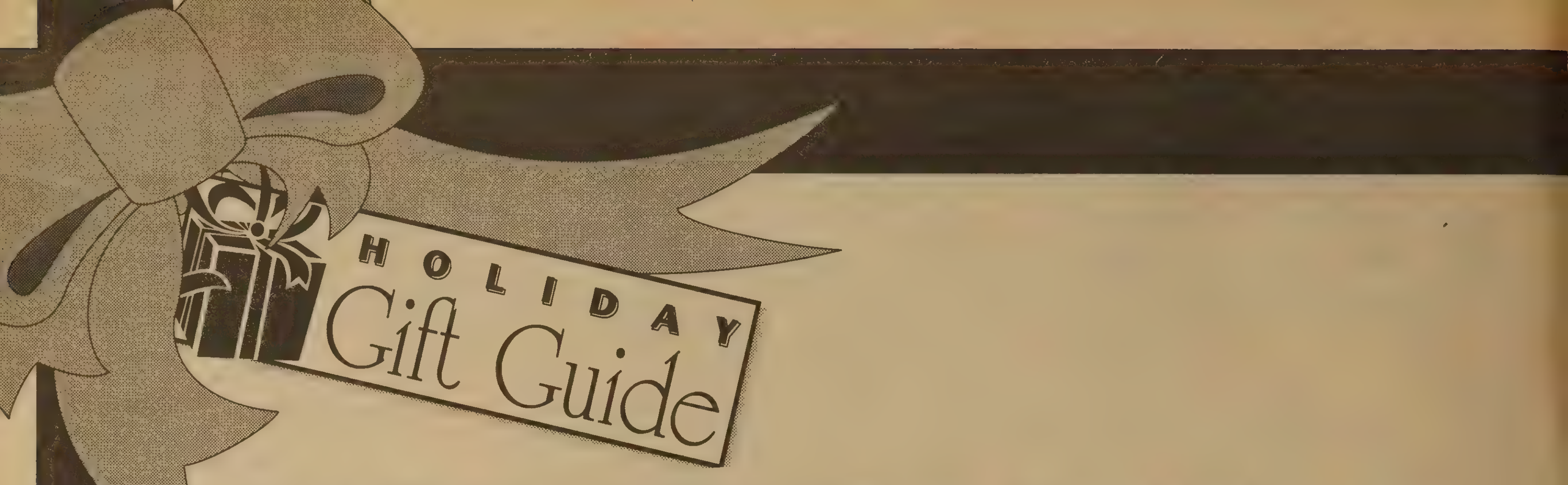


BMUG For The Holidays

Books, Toys—Something For Everybody!

BY DAVID MORGENSTERN

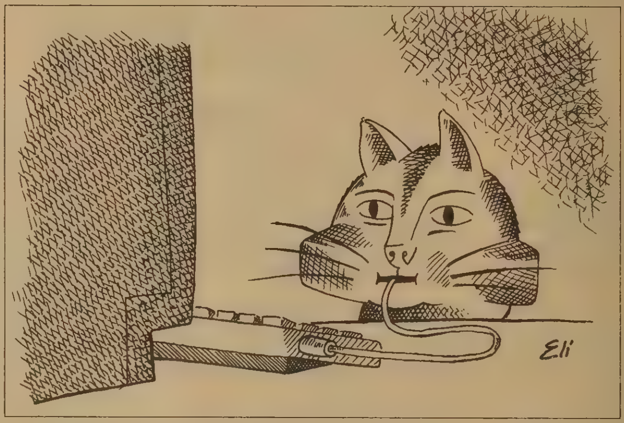
It's that time of the year again—the season of receiving. Or are you stuck being the primary giver? Either way, there's a BMUG something for everyone, no matter your budget, great or small. You don't even have to be a Macintosh owner!

BMUG—THE YEAR 'ROUND GIFT

As I travel around the world, I continually meet people excited about BMUG. These great folks are not just being polite and humoring the self-proclaimed BMUG cheerleader. They are pleased to be supporters, because BMUG isn't like any other user group. Instead of a narrow focus on information exchange, our mission also includes helping people, user and developer education, and political action.

There's an old Jewish saying that says, "We fall down by ourselves, but it takes a friendly hand to lift us up." This is what BMUG is all about. Our many meetings, telecommunications service, Helpline, and publications give us an opportunity to share information and support each other with our problems. Computers are not just machines—they can be a force for positive change, and BMUG needs the support of members and the developer community to keep up our good work.

There are many flavors of individual and group memberships available, ranging from $28 for a six-month personal to the $2500 corporate plan. The basic Contributing membership includes two issues of our newsletter (a 400+ page book), access to the BMUG Helpline for one person, and an account on a BMUG BBS for sixty minutes a day. Other individual memberships expand on the basic plan with additional goodies, expanded BBS access and services: Sustaining ($70), Hero ($100), and Satellite Club ($250). For more information on becoming a member, please call the BMUG office at (510)549-2684, or fax (510)849-9026.



This Toonware cat is having a bad mouse day. But he's wearable on the Toonware T-shirt!

THE MORE PAPER LIFESTYLE

BMUG has one foot in the paperless information world on our bulletin board service, Planet BMUG, and the other in print materials. We can't all drag our computers under the covers with a flashlight—yet. Here are a few of the cool book deals available from BMUG:

- *The Tao of AppleScript* is the first book on the market about AppleScript. It includes a high-density disk containing Apple's official AppleScript software, as well as scripting utilities and additions written specifically for the book. The book is just shy of three hundred pages and is published by Hayden Books. It's only $20.
- If multimedia is mystifying, you might want to try our *Quicker QuickTime* book. It explains the fundamentals of getting started in multimedia. Although the book is small, it packs a big wallop of information for $10, or you can take advantage of a special deal and get the TV-ROM Too digital video collection and book for only $45.

We also have copies of Apple's new book *Demystifying Multimedia: A Guide for Multimedia Developers.* This $22 book describes all aspects of multimedia production and development. It has interviews with people employed in the field. If you're thinking of a job change or interested in the business, check it out.

- We have a couple more book specials. BMUG's collection of amusing computer related cartoons, Toonware: a humor interface, is only $6, or $15 with accompanying T-shirt. If you've been unsatisfied with any element of your Macintosh interface, try the $30 bundle of BMUG's fantastic *Zen and the Art of Resource Editing* book and our Zen ROM. The CD has thousands of color icons, patterns, resources, and utilities. Very cool stuff.

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A FEW WORDS FROM THE BMUG OFFICE

There are many more specials and items available from BMUG than are mentioned here. You can receive more information, or order by phone at (510)549-2684 or 1-800-776-2684 (orders only). We are also pleased to receive your fax at (510)849-9026.

You can also send a check or money order to: BMUG, 1442A Walnut St. #62, Berkeley, CA 94709. VISA or MasterCard is accepted. Please include the expiration date on the card. Please do not send cash.

The shipping and handling charge is $4 on all orders. Next Day or 2nd Day delivery is available by phone ordering only. Orders need to be received, phoned, or faxed to us by December 10th for Christmas delivery—and you must explicitly state that you want your order by then. The special prices mentioned here are good only until February, and may head upwards at that time. Thanks. ■

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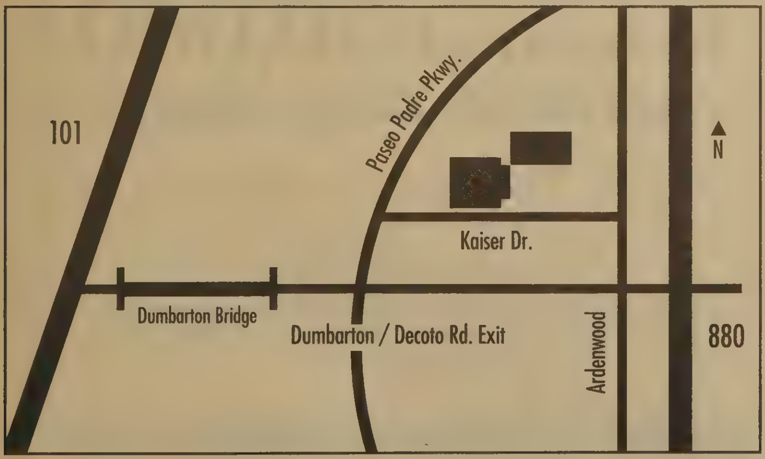

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BMUG is an educational, nonprofit, consumer advocacy group, organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fourteen thousand international members. BMUG supports many special interest groups (SIGs), an 18-line bulletin board system (BBS), software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 400+ page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), in the Physical Sciences Lecture Hall on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose.

The BMUG office, 2055 Center Street (a half block from the BART station), is open to the public from 9 am to 5 pm. Please come by, say hello, and meet other members.

The BMUG Helpline provides volunteer technical assistance and telephonic handholding for our members. If your question can't be answered on the spot, we try to get you in touch with someone who can help. Of course, not every problem can have a happy ending—but we try. Improve your Macintosh education and help others by becoming a Helpline volunteer!

BMUG has one of the most up-to-date, comprehensive software libraries around with hundreds of disks filled with the latest versions of public domain or shareware programs. BMUG also produces CD-ROM collections, including the digital video TV-ROM™ Too, Font CD, and the BMUG PD-ROM.

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BMUG can be found on most electronic services. BMUG can also be reached through the Internet international network through UG0001@applelink.apple.com.

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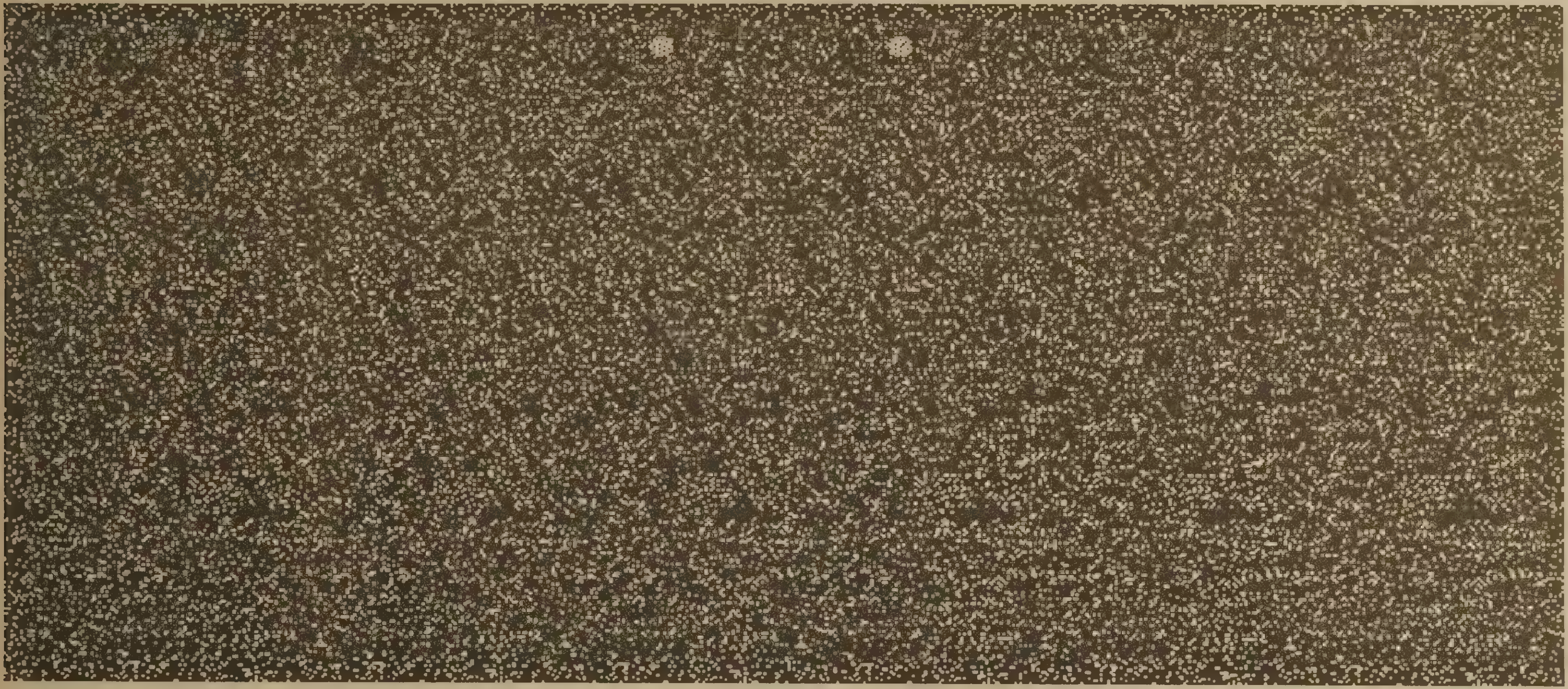

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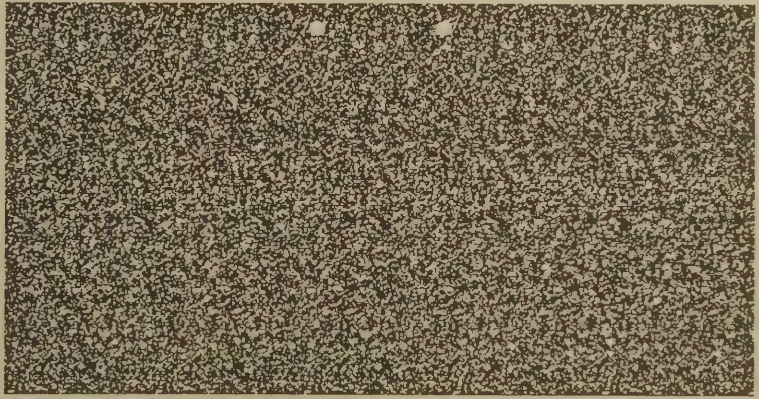

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Techy Corner.

Thinking about PCI? Hold on. We have tested some 486 PCI motherboards with PCI Video and PCI SCSI. NONE OF THEM PERFORMS ANY BETTER THAN VLB YET! Obviously, PCI is not mature, nor popular yet. It's not like VLB, PCI is not downward compatible. It can't support ISA card. A PCI motherboard will leave you 4 ISA slots if PCI slots are not being used. Willing to pay more for an immature product? We aren't yet.

- $20 bucks more for a 40DX than the 33DX. AMD 486-40DX CPU is no worst than Intel 33DX. Afterall, $20 for 20% more CPU performance and it is pin to pin compatibile with Intel, why not?
- Why not 33SX but 33DX? The difference is only a Math co on DX and if you are not using Auto-CAD, running spreadsheet or any scientific programs that require Math co, then save that hundred dollars for a modem or a tape backup. SX and DX perform the same!

Interlaced and non interlaced monitor? Non interlaced scans its electronic beam back and forth, while interlaced scans alternatively. This happens only in 1024x768 resolution with a 14" monitor. If 1024x768 is too fine for your eyes, then you don't need a NI unless price is not a concern.

- Regular 30Pin SIMM is a 8-bit device, you group four of them together to make it 32Bit in order to talk to the 32Bit 486 CPU. That is why you always have to populate a 4-slot bank with the same type of SIMM on a 486 motherboard. Most motherboard has 2 banks of 4 slots each. Combination could be 1+0M, 1+1M, 1+4M, 1+16M, 4+0M, 4+4M, 4+16M, 16+0M,16+16M. If you want 8MB, then slots will be all filled and jeopardize your future upgrade. Or you can get 4MB now and wait until memory gets cheaper, then buy another 16MB to make it 20MB. Same theory applies to 72Pin SIMM but 72Pin SIMM is just 4 of 30Pin SIMM physically combined together. And 8MB and 32MB 72Pin SIMM are called double density, 8 of 30Pin SIMM combined

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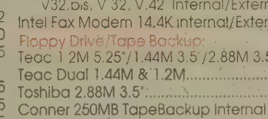

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Mercury Center

The Shape Of Publishing To Come?

BY KATHLEEN CREIGHTON

Learning how to read was the best thing I've ever done in my life. Reading was the centerpiece of my childhood, the reason for many hundreds of trips to the library, hours of spelling drills and sentence diagramming, world literature, and two years of Latin. Like most kids who read, I had stratospheric SAT scores in English.

Reading is the main thing you're likely to do online, so enjoying it is nearly a requirement. Once logged on, I realized that others had even more stratospheric SAT scores in English than I did and a deeper knowledge of literature. They wrote in ways that I could only dream of, and, as evidenced by the number of people online who own an Oxford English Dictionary, possessed a true love of words for their own sake. Many people bring all of these fine talents to the virtual party, while the rest of us labor to infuse the CRT with life so that we may be more easily understood when discussing, say, lasagna recipes. And we try to understand as we read others' writing and fill it with what we hope is the writer's intended meaning.

Simply put, being online is an exercise in literacy. As *San Francisco Chronicle* columnist Jon Carroll put it recently, life online "is not so much post-literate as literate again." And gathering with literate people online can be very exciting indeed.

PUBLICATIONS ONLINE

One of the more popular experimental products online in the last year has been a direct appeal to readers—electronic newspapers and mainstream periodicals. Specialized periodicals and newsletters, mostly financial, have been online for quite awhile, as have newswire feeds and encyclopedias. Many newspaper and magazine publishers had originally sold archival rights to expensive information services, such as DataStar and Nexis, but some are now reconsidering those decisions, wondering if there isn't some advantage to publishing and archiving online versions of their periodicals in the consumer arena at reasonable cost.

Of the more than fifteen hundred daily newspapers in the US, a few have complementary online venues without the complete text of the newspapers. These function more as community bulletin boards and as sources of leads for reporters than as newspapers. The *Chicago Tribune* started up "Chicago Online" last year on America Online (AOL) without the newspaper, although that has since been added. Then Knight-Ridder got into the experiment and put the (almost) complete *San Jose Mercury News* up on AOL, in what is known as "Mercury Center."

Although I've always been critical of people who don't read a daily newspaper, I'm now one of them. I've gotten away from a lifelong habit, relying more on CNN and other television news sources. But I recently wandered into Mercury Center at 4:30 am, and already the day's newspaper was available. As is my habit, I skipped international news and instead scanned the headlines for national, state, and local news. When the headline piqued my interest, I stopped and read the underlying article, much the same way I would read a hard-copy newspaper.

The newspaper was all there, divided into the same sections as its hard-copy counterpart. After I was finished with the news sections, I scanned the editorials, letters to the editor, business, sports and TV news, obituaries, and classified ads. There were no comics and no TV listings (*SJMN* is working on providing listings eventually), but I could look up the guest list for the day's TV talk shows and find out the time for the Giants' game. I did all of this from rural Sonoma County and when I was done reading, I didn't have a stack of paper to recycle.

MERCURY CENTER: MAKING CONNECTIONS

But I didn't know what I was missing until Bill Mitchell, the Merc's director of electronic publishing, sent me a hard copy of the newspaper. On page two, a half page is dedicated to the announcement of the evening's Mercury Center chat topic on AOL, how to get software, how to get AOL support. The newspaper's integration of articles with pointers to online discussion knocked my socks off. And readers can take advantage of background material, text of speeches, and more by using a special code at the end of the story to access more information online.

One of the features I most enjoyed using was the selection of specific types of previously published articles online, available without searching the archives. For example, under the "travel" section of the paper, there are a number of travel articles listed with their date of publication in the newspaper. This is a real boon for reforming packrats like me who tend to collect newspaper articles "just in case" I need them some day. If I were planning a trip to Ireland, I'd take a look at the list of articles available online to see if one covered my travel interest. I could also search the

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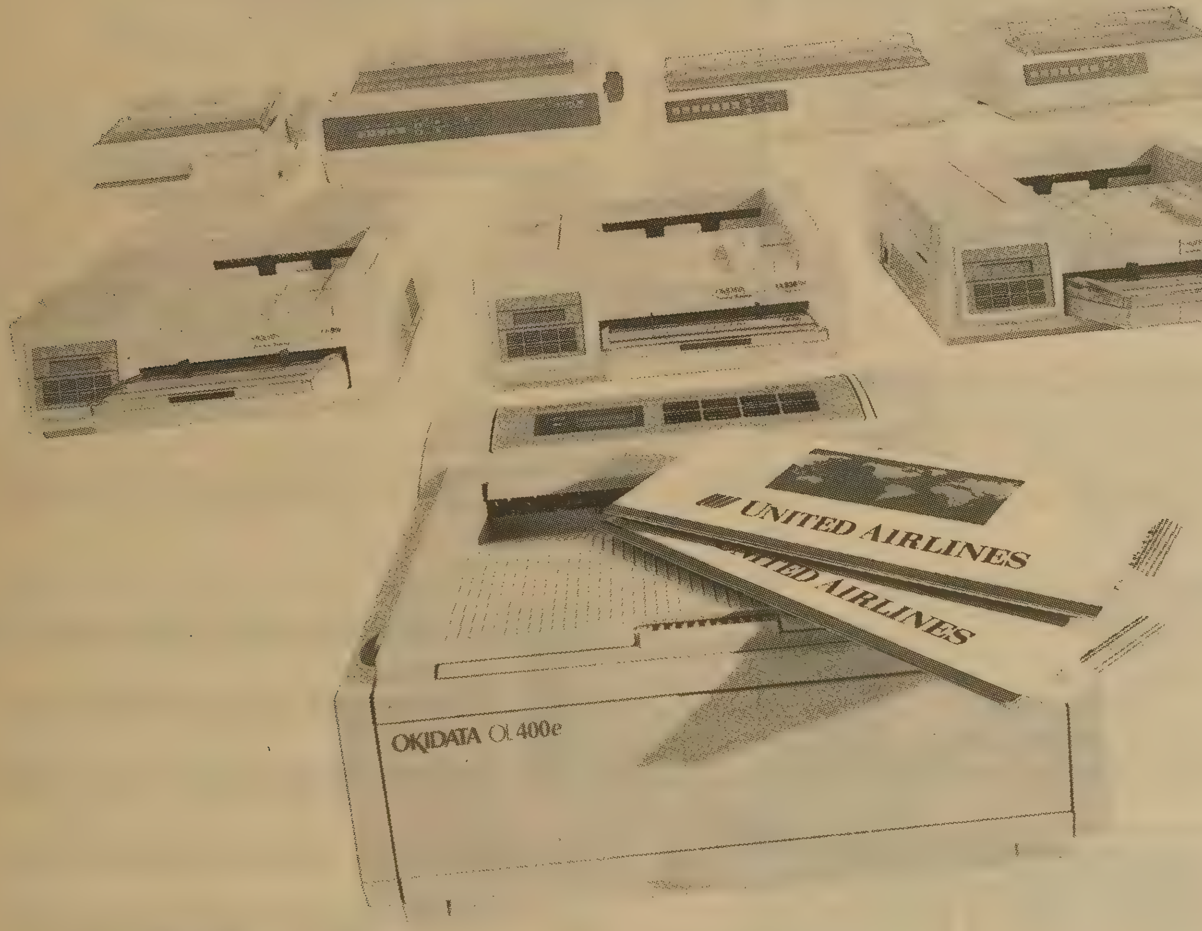

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archives ("News Library") for an additional fee. (Weekdays, 6 am to 6 pm, 80¢ a minute; all other hours and weekends, 10¢ a minute.)

Twice recently it's happened that people have asked me if I've read one or another syndicated column—both happened to be carried in the *SJMN*, so I headed to Mercury Center to see what I'd missed. Eventually, a selection of newspapers online will bring access to a wide range of syndicated material, or, in other words, Ann Landers *and* Dear Abby.

Mercury Center supports message areas and messaging to specific editors, writers, and columnists. The message areas reinforce the regional appeal of Mercury Center within AOL's national usership, something other large commercial services should have seriously considered. (Prodigy has announced a venture with Times Mirror to bring the *Los Angeles Times* online in 1994 as the focus of a regional system.) Given the evanescent nature of daily news, Mercury Center message board discussion tends to center around quality of life issues, such as transportation, crime, and real estate.

The newspaper's integration of articles with pointers to online discussion knocked my socks off. And readers can take advantage of background material, text of speeches, and more by using a special code at the end of the story to access more information online.

While all AOL users are invited to Mercury Center, and while Bay Area users will find some articles of particular interest, the big winners are those who both read the *SJMN* and subscribe to Mercury Center, mostly residents of Santa Clara County, as Mercury Center is tailored to them. It's a great way to stay involved in the news, in regional events, and to give instant feedback about the issues of the day. And parents can start laying the groundwork for their children's stratospheric English SAT scores by introducing school-age children to the fine ritual of reading the newspaper in the '90s.

Mercury Center offers a risk-free ten-hour trial. Monthly rates for Mercury Center are $9.95/month, which includes five hours of online time, then $3.50/hour for every hour thereafter. This includes full access to AOL. For more information, call Mercury Center Customer Service, (408)297-8495 from 7 am to 7 pm weekdays, or from 8 am to 2 pm on weekends. ■

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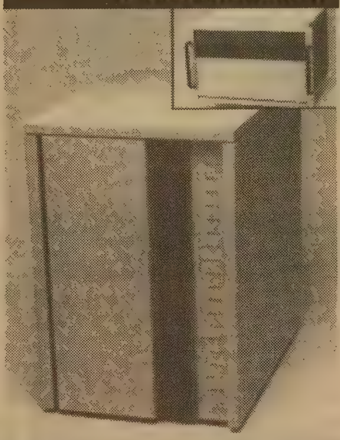

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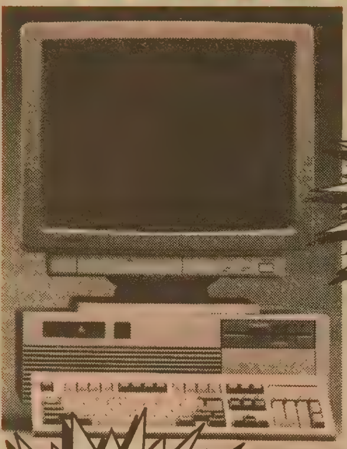

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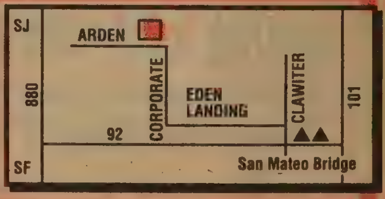

HOLIDAY Gift Guide

Let The (Virtual) Games Begin

BY MICHAEL ROBIN

Every day between 300 to 600 people with code names like “Red Scourge”, “Athena”, and “Whiplash”, depart to virtual worlds from the Virtual World Center in downtown Walnut Creek. Their journeys through time and space are made possible by the use of “a complex computer network and ultrasecret interdimensional transportation technology” developed by the Virtual Geographic League (VGL), a fictive organization “founded in 1895 by Alexander Graham Bell and Nikola Tesla with the goal of discovering and exploring other dimensions, or virtual worlds.” After almost a century of secret exploration and private funding, the VGL decided to open Virtual World sites to fund further research.

Virtual World sites are more than ordinary VR-based arcades; they mix theme park, videogames, and computer technology. Virtual World offers something for both players and observers, including VGL historical books and photos and a refreshment bar and lounge designed with a turn of the century men’s club-like motif.

The Walnut Creek center is a joint venture of Los Angeles-based Virtual World Entertainment (VWE) and Danville-based Reality World Entertainment (which has the rights to open other centers in the Bay Area). VWE was founded in 1987 by Jordan Weisman and L. Ross Babcock III, creators of the BattleTech role playing board game. They opened their first Battle Tech Center in Chicago in 1990 and received additional financial, technical, and marketing strength in 1992 when Tim Disney, grandnephew of Walt, acquired a majority stake.

READY FOR TAKE OFF

“When you sign up as an associate member of VGL and purchase your boarding pass, you choose a call sign, a pilot’s handle,” explains assistant manager Jan Newbegin. You also select a destination. Currently, Virtual World offers two adventures, BattleTech and Red Planet, on different planets, Solaris VII and Mars. They also hope to introduce new destinations each year. Experienced travelers can vary the conditions of the game, including weather conditions, terrain maps, race routes, and type of vehicles and warriors as well as the mission briefing presentations.

Before the actual launch, you are grouped in a travel party of up to eight players. You receive a mission briefing to learn about your destination and conditions of the adventure. You are led through a decontamination room for a variety of micro organisms. (My travel guide told me this is mostly to remove static electricity before space/time travel.) After this, technicians lead you to a cockpit. There are three sets of eight cockpits. Each set is for one multi-user world. Once the hatch is closed you are “launched” into the future for ten minutes of competition.

If you choose to go to BattleTech, “you are transported to the desert planet of Solaris VII, where Mechwarriors from throughout the Universe gather for gladiatorial combat in thirty foot humanoid war machines called BattleMechs.” It is the year 3100. You are inside a Mech, controlling its movements and armaments in your quest for survival.

If instead you opt for the Red Planet, you find yourself in a hovercraft in the middle of a race for your life and freedom. You are on the Mars, where, by the year 3100, the Colossal Mining Company has monopolized the workforce and mining operations. Mine workers—conscripted slaves financially trapped in the company town—race hovercrafts through the mines after hours. The winner gets freedom and a ticket home to earth.

Returning safely to present day earth, you watch a mission review that replays all the interactions that took place. Each pilot receives a printed log of the group’s adventure.

BEHIND THE FANTASY

The cockpits consist of “our homegrown computers,” says L. Ross Babcock III, cofounder and executive vice president of VWE. “The main screen is our TI-based image generator; the game logic is run by a [Motorola] 68020. The secondary screen is being run by an Amiga 500. We also have our own intelligent I/O board that ties in all the cockpit displays, buttons, joysticks, and

HOLIDAY
Gift Guide

foot pedals." In the cockpits, the main screen is a 25" monitor that shows the pilot's view from the Mech or hovercraft . The secondary, 13" screen displays the pilot's position and other data.

The sets of cockpits are hooked together via Arcnet to a Macintosh node that replays the scenario information to the players. It also sends back scoring information for the mission review and score sheets. Players' registration, briefing, and de-briefing are also handled on Macs. An Ethernet network links all of the Mac's in the Center. Except for the addition of a co-processor and network interface card, Babcock points out that these Macs are all just off-the-shelf. While the original center in Chicago was PC-based, they had persistent problems, particularly in networking. One of the lead programmers was a Macintosh enthusiast and convinced them to try switching. The networking problems disappeared and VWE has remained a Mac-based operation.

RESOURCES:

Virtual World Entertainment Corporate Offices
4444 Lakeside Dr.
Suite 320
Burbank, CA 91505
(818)973-4200

Virtual World
1375 N. Main St.
Walnut Creek, CA
94596
(510)988-0700

In Red Planet, you find yourself in a hovercraft in the middle of a race for your life and freedom.

TRAVEL DETAILS & BEYOND

From mission departure through de-briefing, your travel time is approximately thirty minutes. Prices range from $7 to $9, depending on time and day. You can also make reservations for a set of the cockpits. These prices range from $200 during the week for one set of eight cockpits for one hour to all three sets during a holiday for $1050. While customers range in age from twelve to fifty, with these prices the most frequent travelers are in their mid-twenties to thirties—the ones that can usually afford to return regularly.

In addition to the Virtual World Center in Walnut Creek and San Diego (its Grand Opening is December 3), there are Battle Tech Centers in Chicago and Yokohama, Japan. On the drawing board for the first half of 1994 includes Virtual World Centers in Pasadena, San Francisco (the Cannery/Ghirardelli Sq. area), Denver, Dallas, and Hong Kong. In Houston, VWE is designing a BattleTech outpost that will mostly be part a larger entertainment center in a shopping mall.

If you are not close to any of these locations, or want to practice at home, Activsion will soon be releasing Mechwarrior II for the PC and there are SuperNES as well as Sega/Genesis cartridge versions. ■

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With each new device added to your network, the number of possible connections increases, exponentially. Your network traffic increases, collisions increase, network efficiency decreases, and the probability for failure increases.

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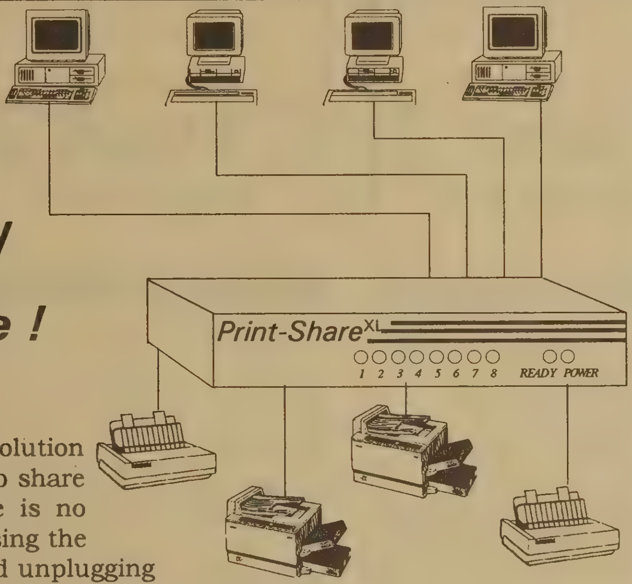

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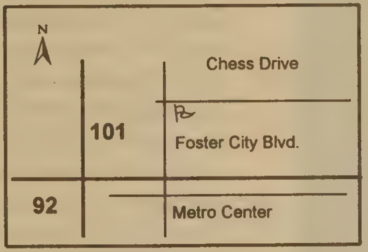

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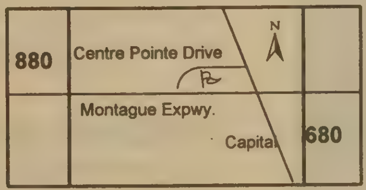

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Online Services:

Which One's For You?

BY KATHLEEN CREIGHTON

1993 has been a big year for the commercial online services—prices are generally down, and many are now offering free high-speed modem access and Internet email. There's no doubt that these companies want you online, preferably with them.

It's been interesting to watch the online musical chairs game since Prodigy's price increase in July. People first defected to GEnie, and then GEnie raised its prices. Then America Online was viewed with more favor. America Online and National Videotex Network both had special offers for Prodigy "refugees"—America Online even pitched some aggressive advertising at them and opened a Prodigy Refugees forum. NVN led the pack with its low prices; with full Internet access just weeks away, it got overconfident about the quality of its offerings and dropped its rock-bottom pricing in favor of charging for access time. In general, the cost of online access seems to be coming down, but the differentiation among the services seems to be increasing.

Everyone seems to have at least one non-negotiable requirement when shopping for an online service—a good selection of forums, access to an online encyclopedia, or any one of a number of other things can be the deciding factor.

A PERSONAL MATTER

The friend who tells you that XYZ service is the best thing since sliced bread may or may not know what s/he is talking about. Very often, new users get online to a particular service and develop a loyalty to it when its offerings might be of no value to you at all. I don't know why this is, but I suspect it has something to do with software mastery. People go to so much trouble to learn how to get around these systems that once they've mastered one system, they're like those imprinted ducks, and that system becomes the One True Online Service.

On the other side, sometimes the complaints about a service are so bitter that they're off the scale—and all of the online services have their share of naysayers. The Member Exchange BBS on Prodigy has raised this to an art form over the years, the Prodigy "defenders of the faith" having hijacked the word "bashing" to describe any complaint leveled by the "whiners and complainers."

Neither praise nor complaints by one person are necessarily meaningful, but you might perceive trends. I saw many positive postings about America Online before I ever warmed up to it. At the same time, I've seen many complaints about how "expensive" CompuServe is made by people who obviously don't understand that CIS has a number of good offline readers available.

The following features are those that seem to be the most important in choosing an online service:

•Does the service have forums, groups, services, and reference materials that interest you?

•Does it matter to you if the interface is text or graphics?

•Is the cost of the service consistent with what you can afford to spend every month? If the service includes "free" hours in the base price, and/or uses a prime-time/non-prime price differential, will you be able to make good use of the least costly hours?

•If you have a 9600-baud modem, does the service also have 9600-baud modem access? Is there a premium charge for it?

•Does the service have an efficient offline reader (which includes the ability to automatically post responses) with enough technical support to get you up and running promptly?

•If there are email limitations (in cost, number of messages, or both), can you get by within them?

•Do you want access to an Internet email gateway? Do you want access to other Internet features, such as Usenet, telnet, and ftp?

BUDGET CONSIDERATIONS

The first two of these considerations should help you narrow your list of potential services. But be careful about going into a service unprepared for the costs of learning and enthusiasm. Many people have suffered "sticker shock" at the end of their first month online. Here's where a service with a gentle learning curve can pay off, because even the most efficient offline reader software can be difficult to learn to use and requires input from you regarding where it's supposed to go. This means that you will probably want to spend some time wandering blindly around the system—electronic wandering appeals to the "explorer" in all of us.

If you know someone using the same service, ask for advice about how to get around, and don't be shy about asking for help online. Find out where the billing information is kept and keep track of it. If you're going to spend some significant money, wouldn't you rather do it later on when you know what you're doing rather than fritter it away because you don't?

No two services price the same way. If you're brand new to online services, keep this article and refer to it about four weeks after you sign up with a service—it will make more sense then.

Experienced online service users can cut through some of the pricing confusion. For the sake of discussion, I'm going to assume that you have an interest in using forums (called variously forums, roundtables, BBSes), but not all online service users want to participate. While some offerings, such as financial and travel services, are covered in the base prices of some services,

Continued on page 288

Advertisement

COMPUTER SUPER CENTER OPENS ITS DOORS IN SAN FRANCISCO

In the past 10 years, the personal computer insustry has undergone incredible change. Rapid technological advances combined with intense competition between 100s of companies has upset the once prosperous industry. One-time leaders are now scrambling to restructure while small to medium sized organizations have consistently fallen by the wayside.

As the computer industry moves into the next decade of fewer players, one company has positioned itself to be a major contender in the national marketplace: Tital Systems, Inc.

San Francisco-based Tital Systems Inc., has successfully carved it's niche in the industry through superior support & service. While most companies are drastically downsizing and cutting corners, Tital Systems has just announced the December Grand Opening of its newest facility, Tital Systems Center, in the heart of San Francisco's Financial District. Located at 432 Clay Street, the 12,000 square foot, multi-million-dollar Tital System boasts four state-of-the-art art computer training classrooms, a 2,000 square foot retail space, on-site manufacturing and on-site warehousing for immediate access to products.

"This facility undoubtedly makes Tital Systems the largest, most comprehensive computer entity within San Francisco," according to Chief Executive Officer and Founder Casey Cass.

Cass attributes the company's success to a set of ideals that hinge on service and support, and staying in touch with individual client needs. While these ideals are not new, what makes Tital Systems unique is the incredible dedcation and proficiency in implementing them.

Cass has carefully assembled each department of his organization with highly trained professionals resulting in his service and support departments being recognized by some as among the best in the nation. "These individuals not only come to us highly trained, they remain informed through extensive, ongoing in-house training." says Cass, "They are proud of their organization and together, they are an extremely effective team."

SALES, SERVICE, SUPPORT & TRAINING UNDER ONE ROOF! MAKES TITAL SYSTEMS A FORMMIDABLE COMPETITOR.

Tital Systems is truly the ultimate one stop shop for all of your computer needs," says Director of training, Gabriel Singh. "Through extensive research, we discovered the need for a complete source of sales, service, support & training under one roof. This enables us to guarantee the consistent quality of our services throughout the organization. All instructors in the organization have met rigorous criteria set by Tital to provide the very best training available at the absolute lowest prices in the nation. The "TRAIN THE TRAINER" program keeps trainers up-to-date with every new program or program-version released. "We believe training should be affordable to everyone, and it should not be at the expense of quality."

The only way to describe the Tital sales team, led by National Sales Director, James Perez, is professional, knowledgable, and exciting. The sales team works in close contact with the technical support department resulting in very educated answers to to clients' needs. "Our sales staff absolutely will not leave a client hanging in the dark. If a Tital Sales Representative does not have the answer you need, he or she will do everything they can to provide you with not only the correct solution, but the most cost effective solution." says Perez.

Tial Systems goes far beyond the realm of your average computer retailer. The Tital Systems new "TITAN" computer line has a five year warranty, which is unheard of in the personal computer industry. Tital Systems not only believes in their product, they stand behind it. Early in 1994, Tital will launch its new division called TSI Interact. This division's sole purpose will be dedicated to the development of Tital's own product line utilizing interactive technology.

Tital Systems has set standards that the next generation of computer dealers and manufactures will be hard pressed to match.

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SYSTEM	MainBoard w/CPU	Basic System
586DX-60/256K VLB	$1730	$1872
486DX2-66/256K PCI	$755	$887
486DX-50/256K PCI	$712	$844
486DX-33/256K PCI	$566	$698
486DX2-66/128K VLB	$530	$660
486DX-50/128K VLB	$480	$610
486DX-40/128K VLB	$330	$464
486DX-33/128K VLB	$343	$475
486SLC2-66/64KVLB	$263	$400
486SLC2-50/64K VLB	$214	$350
486DLC-40/128K VLB	$145	$282
486DLC-33/128K VLB	$136	$273
486DX2-66/128K ISA	$520	$650
486DX-50/128K ISA	$475	$609
486DX-40/128K ISA	$325	$459
486DX-33/128K ISA	$335	$470
486DLC-40/64K ISA	$145	$280
486DLC-33/64K ISA	$135	$270
386DX-40/128K ISA	$102	$235
486DX2-66/256K NICE EISA VESA	$666	$798
486DX-50/256K NICE EISA VESA	$614	$746
486DX-33/256K NICE EISA VESA	$478	$610

SPECIAL BASIC

* Free cooling fan for 486-66's *

- * Motherboard w/CPU+4MB RAM 70ns
- * 1.2 and 1.44MB FDD
- * IDE 2FD/2HD Controller
- * AT I/O 2S/1P/1G
- * 120MB Hard Drive
- * 1024x768 .28DP 14" SVGA Monitor
- * 512K SVGA Card
- * 101 Enhanced Keyboard
- * Enhanced Case w/230 Watt Power Supply
- * Microsoft Compatible Mouse+ Mouse Pad

586 DX-60/256K VESA LOCAL BUS	$2660
486DX2-66/256K PCI	1472
486DX2-50/256K PCI	1429
486DX2-33/256K PCI	1283
486 DX2-66/128K VESA LOCAL BUS	1245
486 DX-50/128K VESA LOCAL BUS	1200
486 DX-40/128K VESA LOCAL BUS	1056
486 DX-33/128K VESA LOCAL BUS	1070
486 DLC-40/128K VESA LOCAL BUS	857
486 DLC-33/128K VESA LOCAL BUS	847
486 SLC2-66/64K VESA LOCAL BUS	978
486 SLC2-50/64K VESA LOCAL BUS	930
486 DX2-66/128K ISA	1240
486 DX-50/128K ISA	1200
486 DX-40/128K ISA	1050
486 DX-33/128K ISA	1060
486 DLC 40/64K ISA	850
486 DLC-33/64K ISA	840
386 40/128K ISA	812
486 DX2-66/256K NICE EISA VESA	1365
486 DX-50/256K NICE EISA VESA	1315
486 DX-33/256K NICE EISA VESA	1180

BEST BUY SYSTEM

486 DX2-66 /128K INTEL VLB MB w/CPU
+8MB RAM
+1.2&1.4 FD
+340MB HD
+SPIDER VLB 1MB
+Viewsonic 6E
+ IDE VLB+ mini case
+Focus 2001 keyboard

$1590

OPTIONS

	570
-Non-Int Monitor	[illegible]
-Viewsonic 6E Monitor	[illegible]
KFC 15" Non-int	[illegible]
-PCI Graphic Card 1MB	200
-SPIDER Blackwidow 1M	[illegible]
-LocalBus SPIDER	[illegible]
-Luminar 24Bits 1MB	[illegible]
-Trident 1MB	[illegible]
-170MB Hard Drive	[illegible]
-Orchid Farenheit VLB	[illegible]
250 MB Hard Drive	45
340 MB Hard Drive	[illegible]
IDE VESA Localbus	[illegible]
Medium Case	[illegible]
Full Tower	[illegible]
Logitech Mouse	[illegible]
-Microsoft mouse	[illegible]
-486 DLC 40 MathCo	[illegible]
-486 DLC 33 MathCo	[illegible]
-486 SLC MathCo	[illegible]

BASIC SYSTEM includes: Motherboard &CPU, 1MB RAM, 1:1 2HD/2FD controller, w/ 1P/2S/1G, 1.2 or 1.44 MB FD, enhanced case w/Power supply, 101 Keyboard.

HARD DRIVES

80mb/18ms (IDE)- Conner CP30084E	$145
120mb (IDE) SEAGATE	158
130mb/15ms (IDE) Maxtor 7120AT	164
170mb/16ms (IDE) Conner CP30124	180
245mb/15ms (IDE) Maxtor	203
250mb/15ms (IDE) Conner	203
340mb/13ms (IDE) Maxtor/Corner	275/265
1 GB Toshiba MK537FB	780
1.2 GB - 13ms (SCCI) Fujitsu	870
1.7 GB - 13ms (SCCI) Maxtor	1125
2.1 GB - 13ms (SCCI)	1740

MULTIMEDIA

Creative Lab Soundblaster Pro	$105
Creative Lab Soundblaster Pro Deluxe	115
Creative Lab SoundBlaster Pro 16	145
MultiMedia Power w/ CD ROM+ SoundBlaster Pro+5 CD titles	330
MEDIAVISION ProAudio Spectrum 16	145
Pro16 MultiMedia System	640
Diamond Sonic w/SCSI	220
Fahrenheit SoundWave	220
NEC CD ROM 84M (280ms)	380
Mitsumi CD ROM w/Card (350ms)	155
SONY CD ROM 31A (490ms)	155
TOSHIBA CD ROM 3401 (200ms)	335
Texel CD ROM DM 3028N	350
Chinon CD ROM CDS535	320

PRINTERS

Panasonic KX-P1123/2023	$165/195
Panasonic KX-P1124i/1624	235/345
Panasonic KX-P2180/2123	155/215
Panasonic KX-P2124/2624	315/375
HP DeskJet 500/500C	295/395
HP DeskJet 550C/HP 4L	585/665
HP IIIP/HP IV/HP 4M	845/1350/1865

VIDEO CARDS

Trident VGA-512/1MB (1024x768,16bit)	$35/55
ET4000 16M colors	70
Diamond SpeedStar Pro ISA w/1MB	110
Diamond SpeedStar Pro VLB w/1MB	110
Diamond Stealth 24VESA Local bus w/1MB	150
Diamond Stealth Pro VRAM w/1MB/2MB	245/310
Diamond Viper VESA Localbus w/2MB	370
SPiDER 32VESA Local Bus w/1MB/2MB	93/143
SPiDER 32VLB Plus w/1MB/2MB	115/165
SPiDER BlackWidow VLB w/1MB/2MB	190/240
Orchid Farenheit 1280Plus w/1MB	145
Orchid Farenheit Localbus w/1MB	145
Orchid Farenheit VA VLB	165
Orchid Celsius 1MB	220
ATI Graphic Ultra plus w/2MB	230
ATI Graphic Ultra Pro ISA w/2MB	315
ATI Graphic Ultra Pro VLB w/2MB	315
ATI Plus VLB 2MB DRAM	280

MONITORS

Nanao F340iw 15"/F550i 17"	$645/930
Nanao F550iw 17"/T560i 17"	1100/1575
Nanao F760iw 21"/T660i 21"	2075/2279
NEC 3FGE/ 4FGE/5FG	574/674/1280
NEC 5FGE/6FGE	1,050/2,280
MAG 15F-MPR (1280x1024,0.28)	490
MAG 17F (1280x1024,0.26)	860
MAG LX 1564 15"	395
SONY CPD 1430s 14"/1604s 17"	575/895
SONY CPD 1730 17"	975
SONY GDP 2036s 20"/2038 20"	1870/2080
HITACHI CM-2095 20"/2087 20"	1270/1520
HITACHI CM-2187 21"	1765
Viewsonic 4E/6E/7	264/280/780
Viewsonic 15/17/20/21	435/940/1610/1850
KFC 15"/KFC 17"	415/745
Mini micro Intrl (1024x768) monitor 0.28	240
Mini micro Non-interlaced Monitor 0.28	250

CONTROLLER CARDS

IDE w/IO	$15
IO with 2s/1p/1g	12
VESA Localbus IDE	35
Orchid IDE VLB w/ IO	59
Promise IDE DC 200	98
Promise IDE DC2040/1430VL	200/130
Adaptec SCSI 1522/1542C	80/175
Adaptect SCSI 1542CF/1542CF w/Kit	215/250
Adaptec SCSI 2742T/2742	325/295
Adaptect EISA SCSI 2742TK	355
Adaptect SCSI 2842 VLK	295
Ultra Stor SCSI 14F/24F EISA	190/350
Ultra Stor SCSI 34F VLB	260

KEYBOARDS

101 Enhanced keyboard	$18
Maxiswitch	28
Keytronics	30
Focus 2001/9000	36/60
Omnikey 101/102/Ultra	75/75/90

MISCELLANEOUS

Internal Modem 2400 Baud	$24
Fax Modem (9600 F, 2400 M)/Window	42
Fax Modem (14400 F, 14400 M)	120
US Robotics Modem 9600/14,400	144/148
US Robotics Fax/Modem 14,400	170
3-Button mouse	10
Microsoft mouse serial/bus/new	40/60/40
Logitech Mouseman serial (4000dpi)	40
Logitech Mouseman Bus (4000dpi)	55
Colorado Tape backup DJ-10 120M	105
Colorado Tape backup DJ-20 250M	155
Colorado Trakker 120MB	280
Colorado Trakker 250MB	330
Baby AT/Mini Tower case w/230W PS	45
Medium Tower case 2/230W PS	72
Full Tower case w/230W PS	85
Dual Floppy Drive 1.2+1.4MB	110

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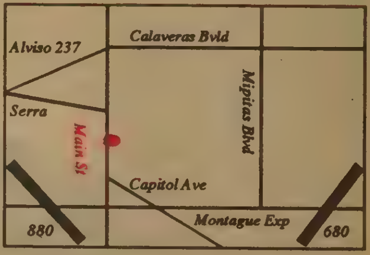

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8MB RAM 70ns Installed, Exp. to 64MB on board
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Keytronic 101Keys Enhanced Keyboard
Microsoft Dos & Windows w/ Disks and Manuals
Microsoft Version II 400dpi Serial Mouse

2,950.00

EISA VESA Local Bus System, Please Call

Christmas Specials

(Limit one per customer)

Colorado Jumbo Internal 250MB Tape Backup	$159
SummaSketch III 12x12 4 or 16 Buttons Digitizer	$269
NEC Internal MultiSpin 3Xi 450K/sec CD-ROM	$499
Adaptec 2842VL VESA LB RISE SCSI Host adapter kit	$299
Adaptec 2742T EISA SCSI 32Bit Adapter kit	$299
AMI Fast Disk EISA Caching SCSI Host adapter	$399
Teac 1.2MB/1.44MB Floppy Disk Drive	$45/35
14" Addonics SVGA 1024x768 .28mm NI Monitor	$265
15" Nanao F340iw 1024x768 .28mm NI 76Hz Monitor	$650
Intel SatisFAXtion Model 400 14.4K Fax/Modem	$265
Intel 144i Internal 14.4K V.42bis Fax/Modem	$145
Microsoft Version II/Logitech 400 serial mouse	$35
Toshiba MK538 1.02GB Fast SCSI-II 12ms	$699

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486DX 33MHz with 256K Cache

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4 MB RAM 70ns, Exp. to 32MB on Board
Teac 1.2MB and 1.44MB Floppy Drive
Conner CP30204 212MB 256K Cache
Orchid VLB IDE 2 Hard/2 Floppy Drive Controller
2 Serial / 1 Parallel / 1 Game Ports
Orchid Fahrenheit 1280 VESA Local Bus 1MB RAM
MAG MX15F 15" SVGA 72Hz Digital Monitor
Keytronic 101 Keys Enhanced Keyboard
Microsoft Version II 400dpi Serial Mouse

1,750.00

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System Boards

All system boards come with CPU & no RAM

AIR 486DX-33/50MHz 3 VLB Slot, 256K Cache	CALL
AMI Enterprise III 486DX2-66 256K EISA VLB	CALL
Diamond FastBus 486DX2-66MHz 256K Cache	CALL
Orchid SuperBoard 486 VESA Local Bus 256K	CALL
Micronics 486DX2-66MHz VESA Local Bus 256K	CALL
NICE US Made 486DX Mini EISA VLB 256K	CALL
NICE US Made 486DX-33MHz ISA VLB 256K	465
Comet 486DX-33MHz VLB 128K with ZIF Socket	440
Comet 486DX-33MHz ISA 128K Cache	420
Comet 386-40MHz 128K RAM Cache	170
Comet 386SX-25MHz with CPU	130

Hard Drives

Conner CP30104 120MB 17ms	179
Conner CP30174E 170MB 17ms	209
Conner CP30204 212MB 256K Cache 12ms	239
Conner CP30304 340MB 12ms	329
Maxtor LXT7131A 130MB 15ms	189
Maxtor LXT7213A 212MB 15ms	229
Maxtor MXT7245A 245MB IDE 15ms	245
Maxtor LXT7345A 340MB 13ms	309
Fujitsu Hard Drives: 5 Year Warranty	
Fujitsu M2624 520MB IDE 3.5" 11ms	569
Fujitsu M2624FA 520MB SCSI II 3.5" 11ms	569
Fujitsu M2694ESA 1.02GB SCSI II 3.5" 10ms	CALL
Quantum ELS127AT 127MB IDE 15ms	199
Quantum ELS170AT 170MB IDE Hard Disk	229
Quantum LPS240AT 244MB IDE 256K Cache	259
Quantum LPS525AT 520MB IDE 512K Cache	549

Floppy Drives

Teac 1.2MB/1.44MB Floppy Disk Drive	35/45
Teac Dual 1.2 & 1.44MB Floppy Drive	130

Power Supplies

200W XT Size Power Supply	59
250W AT Size Power Supply for Desktop	59
230W PS2 Size Power Supply	59
250W AT Size Power Supply for Tower	69
300W PC Power Cooling for Full Tower	185

Scanners

Umax UC630 600dpi 24bit Flatbed Color Scanner	850

Monitors

14" Relisys Paper White Monochrome Monitor	120
14" Samsung Paper White VGA Mono Monitor	135
14" Addonics VGA 640x480 Color VGA Monitor	229
14" Addonics SVGA 1024x768 .28mm Monitor	260
14" Addonics SVGA 1024x768 .28mm NI Monitor	265
14" ViewSonic 6E SVGA 1024x768 NI Monitor	320
15" MAG MX15F 1280x768 .28mm SVGA Monitor	505
15" Nanao F340iw 1024x768 .28mm NI at 75Hz Monitor	650
15" NEC 4FGe 1024x768 .28mm 76Hz NI Monitor	695
17" Sony 1730 1024x768 70Hz .25mm NI Monitor	985
17" Nanao F550i 1280x1024 .28mm 75Hz Monitor	985
17" ViewSonic 17 1280x768 .28mm NI Monitor	1090
17" Nanao F550iw 1280x768 .28mm NI Energy Saving	1150
17" NEC 5FGe 1024x768 76Hz .28mm Monitor	1120
20 Sampo AlphaScan 1280x1024 .31mm Monitor	1200
21" Nanao F750i 1280x768 .31mm Flat Screen NI Monitor	CALL

Multimedia

Media Vision Fusion CD 16 Multimedia System	459
Pro Audio Spectrum 16 Sound Card with SCSI Interface	145
Sound Blaster Pro 16 MCD w/ASP with CD-ROM Interface	209
NEC 3XI TripleSpin 450K/Sec. Int. CD-ROM	$499
Toshiba CD-ROM 256K Buffer 200ms 330KB/sec. Int/ Ext.	369/469
Future Domain 8bit CD-ROM Adapter w/ Driver	59

Modems

Intel 144 Internal 14.4K V.42bis Fax/Modem	145
Intel SatisFAXtion Model 200 14.4K/2400 Fax/Modem	185
Intel SatisFAXtion Model 300 9600/14.4K Fax/Modem	235
Intel SatisFAXtion Model 400 14.4K Fax/Modem	265
Intel SatisFAXtion Model 400e 96/14.4K Ext. Modem	350
Intel 14.4EX External Modem with 16MHz Processor	350
GVC 14.400 V.32bis V.42bis Int./Ext. Fax/Modem	165/185
GVC 96/2400 Baud Internal Fax/Modem	70
Zoltrix 96/96/2400 Baud Internal Fax/Modem w/Win S.	79
Complete PC 96/24 Fax/Modem for Windows	89
US Robotics Courier and Sportster Modem	CALL

Network

3 COM/Intel/SMC and other Ethernet Products	CALL
Ethernet & Arcnet Adapters	CALL
Artisoft Lantastic Products	CALL
Novell Netware & Network Adapters	CALL

Video Adapters

ATI Ultra Plus 2MB DRAM & 400dpi Mouse	279
ATI Ultra Pro VLB ISA 2MB VRAM Video Adapter	359
ATI Ultra Pro EISA 2MB VRAM Video Adapter	409
Diamond SpeedStar Pro ISA/VLB 1MB RAM	129/139
Diamond Stealth 24 VLB 1MB RAM Accelerator	175
Diamond Stealth Pro VLB 1MB/2MB Accelerator	265/365
Diamond Viper VLB 2MB VRAM Video Adapter	429
Hercules Graphite ISA 1MB VRAM Accelerator	240
Orchid Fahrenheit 1280 Plus ISA w/1MB RAM	159
Orchid Fahrenheit 1280 VLB 1MB Video Adapter	159
Accumos Windows Accelerator 256/512K	45/65
Trident 8900 Chip Set 1MB SVGA Adapter	70
#9 GXi Video Adapter Lever 25 to 29TC	CALL
#9GXE Level 10/11/12 Graphics for Windows	CALL

Input Devices

Keytronic/Mitsumi 101 Keys Enhanced Keyboard	45/40
Northgate 101 or 102/Ultra Enhanced Keyboard	79/89
Logitech 400dpi Serial/Bus Mouse Man	35/65
Microsoft 400dpi Serial/Bus Mouse	35/85
SummaSketch III 12x12 4 or 16 Buttons Digitizer	269

Controllers & Adapters

2 Serial, 1 Parallel, 1 Game Ports Card	18
IDE with 2 Serial, 1 Parallel, 1 Game Ports	30
STB 2 16550 Serial & 1 Bi-Directional Parallel	65
Kouwell 2 16550 Serial 1 Parallel & 1 Game Ports	55
Kouwell IDE/FD 2 16550 Serial 1 Parallel & 1 Game	75
Kouwell VLB IDE/FD & 2 16550 Serial 1 Parallel	95
UltraStor 34F VESA Local Bus SCSI Bus Master	260
Adaptec 1522/1542C Kit SCSI Host Adapter	155/255
Adaptec 2742 EISA SCSI 32Bit Adapter Kit	375
Adaptec 2842VL VESA RISE SCSI Host Adapter	299
Promise IDE w/0MB Cache Upgradable to 16MB	150
Promise IDE VLB Cache Host Adapter	CALL

Tape Backups

Colorado 250MB Ext. Parallel Port Tape Backup	359
Colorado 120/250MB Internal Tape Backup	155/159
Palindrome DAT Tape Backup for Novell Netware	CALL
Mountain & Archive Tape Backup	CALL
ExaByte SCSI Tape Backup	CALL

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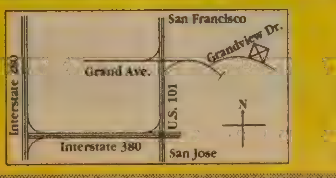

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- D42273V-10
- M5M441156AL-10

512x8 STATIC RAM

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- HM658512LFP-8
- TC518512FL-10
- HM628521LFP-7

128x8 STATIC RAM

- MCM6206CP-20
- HM62256ALP-8
- D43256AC-95L
- D43256AC-85LL Dbl. Low
- HM62256ALP-10
- HY62256ALP-10
- CXK58257AP-12
- HM62256ALP-12
- D42832C-15L Pseudo
- HM6525BLSP-12 Pseudo
- HM65256BLFP-12TZ Pseudo
- TC51832SPL-10L Pseudo

8x8 STATIC RAMS

- HM66264ALP-10
- HM6264ALP-12
- HM6264ALP-15
- TC5564APL-15 CMOS
- D4464C-15 CMOS
- MB8464-15LP
- CXK5864BM-70L
- D4464G-15L CMOS
- TC5564AFL-15 CMOS
- CXK5864BSP-70L

2X8 STATIC RAM

- HY6116ALP-10
- HY6116AP-15
- HM6116LP-2
- HM6116LP-3
- TC5517CPL-15
- TC5517PL-20
- MSM5126-20RS
- TMM2018AP-25
- UPD4361K-40

32X8 PSEUDO STATIC RAM

- D42832C-15L
- HM65256BLSP-12
- TC51832SPL-10
- HM65256BLFP-12TZ Tape

8x8 STATIC RAM

- XK5863J-25
- HM6264ALP-10
- LH5168-10L
- HM6264ALP-12
- HM6264ALP-15
- TC5564APL-15 Full CMOS
- D4464C-15
- D4464C-15 Full CMOS
- D4364C-15L
- M5M5165FP-10L
- D4464G-15L Full CMOS
- TC5564AFL-15 Full CMO

EPROMS

- AM27C64-150DC
- NMC27C64Q-15
- TMS2764-2JL
- AM27128ADC
- D27128D-2
- TMS27C256-120JL
- AM27C256-150DC
- NM27C256Q-15
- M27C512-15JL
- MBM27C512-15
- M27C1001-12F1
- D27C0101-150
- TMS27C0101-150
- HN27C101AG-12
- HN27C101AG-15
- HN27C1024HG-85 64X16
- HN27C1024HG-10 64X16
- HN27C1024HCC-85 64X16
- M27C2001-10F1
- TMS27C020-15JL
- UPD27C2001DZ-12
- P28F020-150
- AM28F020-150JC
- TMS27C040-12JL
- D27C4001AG-12
- HN27C4001AG-12
- HN27C4096CC-10
- HN27C4096CC-12

8000 SERIES

- UPD8155HC
- MSM81C55-5RS
- D8155C-2 89dc
- D8243C 90dc
- MSM82C51A-2SJS
- D71051C 825C51
- D71051L 82C51
- M82C53-2
- 88253C-2
- D71054GB
- D71054GB-3B4

256X1 DRAMS

- HM51256P-8
- HM51256P-10
- MB81256-10
- MB81256-12
- TMM412567AT-10

DRAMS

- UPD424170LE-80
- D424800LE-80

MODULES

- D424000A9BA-70
- D421000A9BA-70
- 1X9-70
- HYM591000M-70 9 Chip
- KMM5361000BG-7
- HB56G51236B-7A

256X4 DRAMS

- V53C104H-45
- D424256LA-60
- MB881C4256A-60PJ
- D424258LA-80
- MSM514256A-70RS
- AAA1M304P-07
- LC324256BP-70
- MCM514256AP-80
- MB81C5246A-80P
- MB81C4256-60PSZ
- GM71C4256AZ-70
- MSM514256A-70ZS

4MX1/1MX4 DRAMS

- D424100LA-70 T+R
- HM514100AS-7GS
- MSM514101A-70JS
- HM514400AS-7
- TMS44400-70DJ
- D424400V-70
- GM71C4400AZ-70

1MX1 DRAMS

- MCM511000A-70ZS
- AAA1M300J-07

64X4/256X1 DRAMS

- D41464L-80
- HY53C464LF-80
- KMM41C464AJ-10
- TMS4464-10FML
- TMS4464-12FML
- HM50464CP-12
- HM50464CP-15
- TMS4464-12SDL
- D41464CF-12
- HM51256P-8
- HM51256P-10 CMOS
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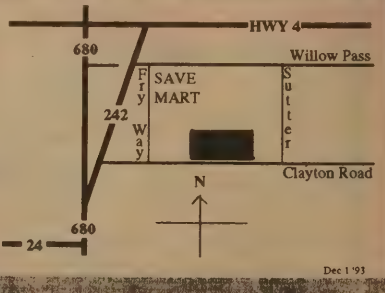

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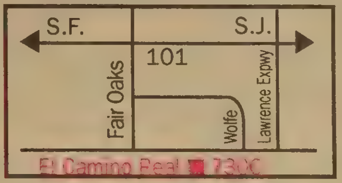

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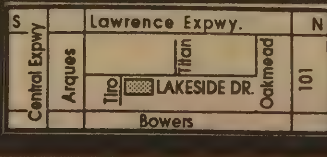

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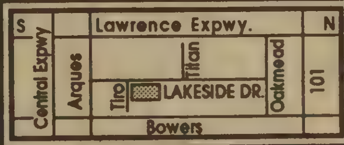

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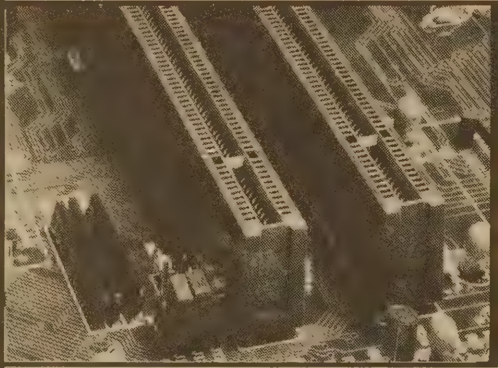

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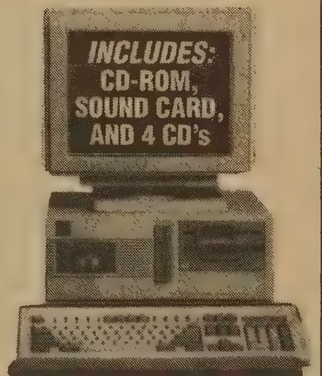

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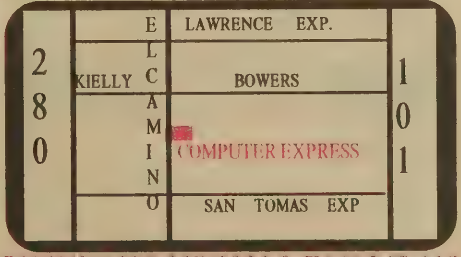

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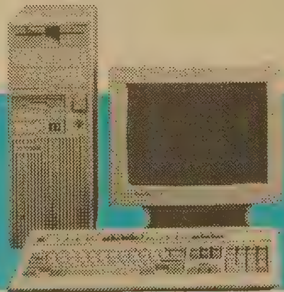

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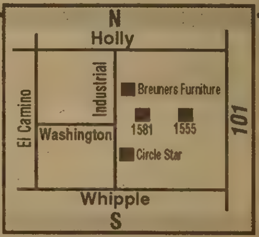

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Diamond Stealth 24 1MB-ISA/VLB	$160/170
Dia. Stealth Pro 1MB-ISA/VLB	$245/255
Dia. Stealth Pro 2MB-ISA/VLB	$320/330
Diamond Viper VLB 2MB	$389
DFI Monochrome w/parallel port	$35
DFI Color w/parallel port	$45
Genoa ET4000 VGA, 24-bit w/1MB	$127
Genoa VLB32-bit accelerator/1MB	$138
Genoa Win VGA Acc 24-bit 1MB	$149
Genoa VGA VRAM Win acc/1MB	$215
Genoa Multmedia board	$545
#9 GXi L20/L21/L23 Lite	$505/665/945

PROMISE, ORCHID, S.T., TRIDENT SPIDER ALSO AVAILABLE. CALL FOR LOW PRICES!!!

Modems & Faxes

Hayes:

Accura 14.4+Fax Int/Ext	$216/245
Optima 96 Ext+Fax96	$378
Pocket ed. 2400 w/Smartcom EZ	$132
Ultra 144 v.32bis, v.42, v42bis Ext	$579

Intel:

100 Int send96 rec. 2400 modem	$99
400 Int 144/144 v.42, v.32 bis, MNP5	$299
New Fax Modem 24/96 Internal	$57
New Fax Modem 14.4 Int/Ext	$180/199

US Robotics:

Courier 144 v.32bis, v.42, Int/Ext	$376/386
Sportster 14.4/14.4 MNP5 Int/Ext	$170/190

Nuvotel, Zoltrix, & ZY-XEL - Call!

Disk Controllers

IDE 2H/2F	$15
IDE4FD/2HDD	$32
UMC IDE 2H/2F 2S/1P/1G	$16
Wiseland serial card 1 port	$12
Wiseland serial card 2 ports	$15
Wiseland AT I/O 2S/1P/1G	$12
Wiseland AT I/O 2S,2P	$18
Wiseland AT I/O HiSpeed	$30
4 Floppy Controller	$30
Promise local bus	$46
BT-445S SCSI II VLB	$289
BT-542B ISA SCSI w/Kit	$239
BT-742A EISA SCSI w/kit	$299
Adaptec 1522 16 Bit SCSI	$84
Adaptec 1522K SCSI	$168
Adaptec 1542 C/16 Bit SCSI	$188
Adaptec 1542CK SCSI w/software	$249
Adaptec 1742BK EISA 32 Bit w/kit	$399
DTC 2280ISA IDE	$20
DTC 2270 VLB IDE	$95
DTC 2290 EISA IDE	$125
DTC 3290A EISA SCSI	$440

Multimedia

Sony CD caddy	$7.50
Altec ACS50 Speaker System	$70
Jazz Hipster J-511AV Speakers	$79
Labtec Speakers CS150/180/550	$27/33/35
Koss Amplified Speakers w/Equalizer	$49
Koss Maximun DR Amplified Speakers	$70
Zoltrix Delux Speakers	$18
Gallant Sound Card/Gravis Ultra Sound	$72/145
Cardinal Digirtal Sound Pro 16	$130
Turtle Beach 16-bit MultiSound	$525
CREATIVE LABS	
CD 531 Ext. w/Ext Kit	$240
CD-ROM Upgrade Kit w/4 CD Int	$380
Midi Kit	$49
Sound Blaster Deluxe	$88
Sound Blaster Pro Basic/Deluxe	$99/125
Video Blaster/Wave Blaster	$79/225
Video Blaster/Wave Spigot for Win	$320/349
Sound Blaster Pro Kit w/6 CD Ext	$465
Discovery CD-16 Internal	$475
Edutainment CD-16 internal Kit	$499
Logitech Soundman 16	$115
Media Vision	
Pro 16/Pro Audio Spectrum 16	$135/165
Pro Audio Spectrum Ext. Kit	$50
Pro Audio Studio 16	$210
Pro Movie Spectrum/Studio	$295/335
Pro 16 MultiMedia System/II	$790/845
Fusion CD/Double CD 16	$480/590
NEC MultiMedia Upgrade Kit	$765
NEC CD-ROM 84/74 (280ms)	$365/475
Sony CD 31A/Mitsumi LU005S	$150/160
Panasonic CR-522/562 (300KB/s)	$168/225
Texel DM-3024 (Int)/5028 (Ext)	$340/450
Toshiba 3401B /E Int/Ext 200ms 330KB/s	$365/475
Driver Kit for Media Vision Int/Ext	$30/70

Networking

3COM3C503 Etherlink II16-bit coax	$159
3COM 3C503TP Etherlink II16-bit 10base T	$179
3COM 3C509 Etherlink III coax	$129
3COM 3C509TP Etherlink III 10baseT	$136
IBM Token Ring adapter II	$289
IBM Token Ring adapter II 16/4	$498

Intel, Lantastic, Netware, and SMC products available please CALL

XENO OFFICE MACHINE WITH MULTIMEDIA

- 486DX2-66 -VLB w/256K
- 4MB RAM
- 340MB Hard Disk
- 1.44 & 1.2 MB Floppy Drive
- 9600 bps Data Modem with Fax
- SCSI Controller Card
- VLB accelerator/1MB
- 15" SVGA monitor
- Mitsumi 101 KB & Mouse
- Full Tower Case w/300 Watts
- CD ROM
- Ethernet Card (3COM)
- Sound Blaster Card & Speakers
- Windows 3.1/DOS 6.0
- CD Business Pack (5 CDs)

$2999

Notebooks

Monochrome(9.5" LCD, 64 gray scale, 5.5lbs. w/battery):

486DX-33	$1799
486DX2-50	$1849
486DX-50	$1899
486DX2-66	$1999

Active color (9.5" LCD, 6.2lbs w/battery):

486DX-33	$3199
486DX2-50	$3249
486DX-50	$3399

Accessories:

200MB/345MB HDD	$395/599
Extra battery pack	$87
Internal fax modem	$127
Docking Station	$375

ALL NOTEBOOKS INCLUDE:

- •4MB expandable to 20MB
- •Int. DC battery pack w/ext AC/DC adapter.
- •MS DOS 6.0 & Windows 3.1
- •Carrying case
- •1.44MB internal FDD.

Other Items

•Keyboards:
B.T.C.,Chicony,MaxiSwitch, Membrane, Mitsumi, Sejin and Northgate: from $19 up

•Mice:
Serial (different colors), 3 button, Logitech Trackman: from $10 up

•Printers:
Citizen,Lexmark,QMS,QUME,Konica, NEC, Star, Canon and Okidata - from $138 up

•Cases/PS

PLEASE CALL FOR LOW *PRICES NOT LISTED HERE!*

XENOSYS Corporation
258 Java Drive,
Sunnyvale, CA 94089
(North of 237, between Mathilda and Fair Oaks - between Borregas and Geneva on Java Drive)

VISA, MASTER CARD
AMERICAN EXPRESS
DISCOVER ACCEPTED

Tel#s: (800)-REAL-PCS (408) PCs-FOR-U
(800)-732-5727 (408) 496-6953
(510) 256-9938 in Pleasant Hill. CA

ASA COMPUTERS, INC

2354 Calle Del Mundo Santa Clara CA
Open Mon - Fri 9 - 6:30 Sat 10 - 4

Tech Support: (408) 496-6853 Ext215 Mon - Fri 9 - 5

International Orders via Fax: (408) 988-0359

Professional Multi-Media System

486DX2-66 w/256K
AMI Enterprise III
Diamond Full Tower
32 MB RAM
AMI SCSI/LAN VLB
Diamond Viper VLB
1.2 GB Toshiba HD
1.2 MB 5.25" FD
1.44 MB 3.5" FD
TrueVision Targa+ 16
Toshiba 3401B CD-ROM
Labtec CS800 Speaker
Hitachi Accu PS21
Microsoft Mouse
Focus 9000 KB
DOS 6.0
Windows 3.1
..........$8539

Student Multi-Media System

483SX-25 VLB
Mini Tower Case
8 MB RAM
245 MB IDE HD
IDE w/2SPG
1.2 MB 5.25" FD
1.44" MB 3.5" FD
Orchid Fah VLB w/1MB
Pro Audio Spectrum 16
Mitsumi CD-ROM
14" 1024x768 .28
Mustang Speakers
KeyBoard
CD 6PK Bundle
..........$1775

ASA COMPUTERS, INC

[408] 496-6953 Also check later in this Ad for the store closest to you.

This is a sample chart to help you configure systems.
Look at our other pages for more peripherals.

SYSTEM CACHE 64K on all DX MBs $25 more for 256K	Basic System M/B, 1MB mini tower IDE/2SPG 1.44 FDD 101 K/B	Basic System +40MB ide 14" mono Mon MGP Card	Basic System +40MB ide 13" VGA Col .28 Ref. 1 yr. War. VGA Card	Basic System +80MB ide 14" SVGA .39 SVGA 512 Card Total 4MB 5/17/93	Basic System +120MB ide 14" SVGA .28 SVGA 1MB Card Total 4MB +1.2 Floppy	Basic System +200MB ide 14" NI SVGA .28 SVGA 1MB Card Total 8MB +1.2 Floppy	Basic System +340MB ide 14" NI SVGA .28 SVGA 1MB Card Total 8MB +1.2 Floppy	Basic System +340MB ide 14" NI SVGA .28 SVGA 1MB Card Ttl 8MB +1.2 fdd CD-ROM, Spkrs Sound, J stick,
PENTIUM-VLB	$2,148	VLB Machines have VLB IO/IDE and VLB 1MB SVGA				$3,037	$3,097	$3,342
486DX-66 VLB	$762	where applicable			$1,428	$1,651	$1,711	$1,956
486DX-50 VLB	$701				$1,368	$1,590	$1,651	$1,896
486SLC2-66 IBM	$443				$1,109	$1,332	$1,392	$1,637
486DX-33 VLB	$564	Corporate: 48 hr On-site plan available			$1,230	$1,453	$1,513	$1,758
486SX-25 VLB	$359				$996	$1,218	$1,279	$1,524
486DX2-66 EISA	$799		$1,081	$1,316	$1,436	$1,658	$1,719	$1,964
486DX2-66 ISA	$719	$913	$1,001	$1,236	$1,355	$1,578	$1,638	$1,883
486DX-33 ISA	$513	$708	$795	$1,030	$1,150	$1,372	$1,433	$1,678
486DLC40 ISA	$302	$496	$584	$819	$938	$1,161	$1,221	
386DX-40 ISA	$263	$458	$545	$780	$900	$1,123		
386SX-40 ISA	$230	$425	$512	$747	$867	Free mouse w/ all systems		
286-20 ISA	$213	$407	$495	$730	$849	Memory prices change, so ask for current prices.		

This Matrix is updated frequently, please give us a call and we will fax you the latest version

VAR's and reseller's call for our reseller matrix.

All ASA build systems have an in-house system warranty of three years.

Parts Warranty is 1 year.

.....................TOP OF THE LINE LOCAL BUS GRAPHICS/CAD WORKSTATIONS..........

add $1499 for pentium CPU

SPECS	DIAMOND	ATI	ORCHID	NUMBER NINE	MUSTANG	PEGASUS
Motherboard	DIAMOND Fastbus	MICRONICS MX-30**	ORCHID	AMI Super Voyager**	MUSTANG**ISA/VESA	PEGASUS M EISA/VESA
Power	486-66 256K CACHE	486-66 256K CACHE	486-66 256K CACHE	486-66 256K CACHE	486-66 256K CACHE	486-66 256K CACHE
Video Power*	50 winmark	26 winmark	50 winmark	42 winmark	54 winmark	54 winmark
RAM	8MB-70 exp to 128MB	8MB-70 exp to 64MB	8MB-70 exp to 32MB	8MB-70 exp to 64MB	8MB-70 EXP TO 32	8MB-70 EXP TO 128MB
BIOS	DIAMOND	PHOENIX	AMI	AMI	AMI	AMI
Exp. Slots	2 VESA, 5 ISA	2 VESA, 6 ISA	2 VESA, 5 ISA	2 VESA, 6 ISA	2 VESA, 5 ISA	2 VESA, 6 EISA
Floppy Drives	1.2, 1.44 Teac Drives	Same	Same	Same	Same	Same
HFC/IO	32 bit orchid VLB	32 bit orchid VLB	32 bit orchid VLB	32 bit orchid VLB	32 bit mustang VLB	Promise w/2MB Cache
Case,230 UL	Med Tower 230 PS	Same	Same	Same	Same	Same
Keyboard	Keytronic/Maxi Switch	Same	Same	Same	Same	Same
Video Card	DIAMOND-VIPER	ATI-ULTRA PRO	ORCHID CELSIUS 9000	#9 LEVEL 11	SPIDER BLACK WIDOW	SPIDER BLACK WIDOW
Spc. Features	2MB VRAM	2MB VRAM	1MB VRAM	2MB RAM	1MB DRAM	1MB DRAM
	1280X1024X256Clr 74Hz NI	1280X1024X16Clr 74Hz NI		Virtual rsltn upto 2048x1024	1280x1024 16clr 60Hz NI	1280x1024 16clr 60Hz NI
	1024x768x66kClr, 76Hz NI	Same	Same	1024x768x66KClr, 100Hz NI	1024x768 256clr 72Hz NI	1024x768 256clr 72Hz NI
32bit Proc	WEITEK P9000	MACH32	WEITEK P9000	S3 928 GUI Accelerator	S386C805	S386C805
Video Mnfr #	408-736-2000	416-756-0711	510-683-0300	617-674-0009	408-956-1231	408-956-1231
Price	$1,665	$1,792	$1,451	$1,870	$1,411	$1,745

These Workstations Do Not Include Monitors & Hard Drives

* PC magazine 2.5

**Intel P24T Socket

Add Hard Drives, Monitors, Multi Media Components, And other peripherals as per your need. [Look at our other pages for specs and prices.]

Business Class Multi-Media System

486DX-33 w/256K
MustangF VLB MB
Med Tower Case
16MB RAM
340 MB IDE HD
Mustang VLB IDE/IO
Diamond 24 Stealth VLB
1.2 MB 5.25" FD
1.44 MB 3.5" FD
Pro Audio Spectrum 16
Toshiba 3401 CD-ROM
Labtec Speakers
Mitac 15"
KeyBoard
...........$2624

Home Use Multi-Media System

386SX33 MB
Mini Tower Case
4 MB RAM
120 MB IDE HD
IDE w/2SPG
1.2 MB 5.25" FD
1.44" MB 3.5" FD
VGA w/512K
Heyna SB Compatible
Mitsumi 350ms CD-ROM
Mustang Speakers
VGA 13"(Ref 6 mon)
KeyBoard
..............$999

MICRO MARKETPLACE

(408) PCs-FOR-U ASA COMPUTERS 1-800-REAL-PCs

LOCAL BUS

MOTHERBOARDS

(Many of our new M/Bs have Pentium Socket)

Mustang 486SX-25	$185
IBM Alaris 486SLC2-66, 64K	$288
MustangT 486-33/50/66...w/256k ..... w/Pentium Socket	$439/589/649
MustangF 486-33/50/66 w/256k	$394/545/601
Pegasus M vlb Eisa/Vesa Pentium ready.........486-33/50/66.w/256K	**$545/695/751**
ORCHID 486-33/50/66-256K	$432/582/638
Micronix 486-33/50/66	**$692/842/898**
AMI Super Voyager 486-33/50/66 w/256k...	**$696/846/903**
AMI Enterprise IV 486-33/50/66 w/256k.... ....EISA/VESA	**$918/1068/1124**
CapricornT Pentium 60MHz 512K	$2034
Sagitara H Pentium 60MHz PCI 512K	$2486

(currently we can offer only 15 days warranty on Pentium CPUs)

CONTROLLERS

Mustang IDE/IO	**$39**
ORCHID IDE/IO vlb	$63
DTC 2272 VLB IDE / IO wo/Game	**$60**
DTC 2270 VLB 8.3MB/sec IDE / IO	**$79**
DTC VLB 3270 SCSI	**$120**
Promise DC-4030 VLB 4HD/2FD	$129
Forex Bus-Master VESA,50Hz	$204
BusLogic BT445S VLB Fast SCSI-II	$287
Mustang IDE/IO Cach15.6mb/sec	$129
UltraStor SCSI 34F, 32k Card..10mb/sec	$257
UltraStor SCSI 34F, 32k Kit	**$316**
AMI SCSI VLB	**$471**
Adap VLB 2842VL	**$298**

GRAPHIC ADAPTERS

(wm = winmark ver2.5)

DIAMOND Stealth 24vlb S3-805. 1mb dram	$164
DIAMOND Stealth pro 1/2MBram,36wm	$215/309
DIAMOND Viper 1/2MB,9000,50wm	$296/382
ORCHID Fahrenheit S3-805, 1/2MB	$149/194
ORCHID Same w/voice annotation	$196
ORCHID Celsius 1MB	$200
ORCHID P9000 2MB	$335
Spider 32 VLB 1MB/2MB,20 WM	$93/139
Spider 32 VLB Plus 1MB	$107
Spider Blk windows 1MB 54 WM	$175
spider Blk windows 2MB	$277
ATI Ultra Pro, 1/2MB, 26wm	$296/353
Mustang VLB Cirrus logic 1/2MB	**$86/123**

NOTEBOOKS

ESCORT

386SL/25,80MB,2MB-CLR	$1760
486SLC/33,80MB,HDD,2MB	$1395

BONDWELL

486SLC/25, 80MB, HD, 4MB	$1429
486SLC, 120MB, 4	$1427**
486SLC/33, 130MB, HD, 4MB	$1569

TWINHEAD SLIMNOTE

386 SXL-25, 2MB, 60MB / 80MB	$1294/$1339
486 SLC-33, 2MB, 80MB/130MB	$1650/$1794

LEADING EDGE

386 SXL-25, 4MB, 80MB	$1431
386 SL-25, 2MB, 80MB, COLOR	**$1980**

CHAPLET/SUNRACE

Chaplet 80MB Hard Drive	$1275**
386 SX25, 4MB, 80MB/120MB	$1199/$1399
486 SLC, 2MB, 80MB/120MB	**$1475 / $1599**

(........the only notebook w/SCSI port........)

Call for high end notebooks and notebook accessories

MOTHERBOARDS

(Many MB,s have Pentium Socket, See Local Bus Section)

286-12/20	$40/52
386SX-33/40	$69/73
Stallion 386DX-40 w/64k Cache	**$107**
Stallion 486SLC-25 Cyrix	**$119**
Stallion 486SX25	**$163**
Stallion 486DLC-33/40 w/64K	**$133/145**
Stallion 486SX33 64k	**$207**
Stallion 486DX-33 with 64/256k	**$366/377**
Stallion 486DX-50/66 w/256k	**$528/584**
Stallion EISA 486DX-33/50 w/256k	**$449/599**
Stallion EISA 486DX2-66 w/256	**$655**

Call for pricing of M/Bs w/o CPU

CONTROLLERS

IDE 2FD-2HD/4FD-2HD	$12/26
IDE w/ 2SPG .gen	$16
IDE Caching Ultrastor 15C (upto 8MB)	**$195**
IDE Caching Promise DC200 2FD/4HD	**$112**
IDE Caching Promise DC2032 2FD/4HD,IO	**$149**
IDE EISA DTC/HFC RLL Card	$135/20**
Kouw 531 4Port Serial wo/w16C550	$69/109
Kouwell 2spg 16C550	$45

SCSI

Future Domain Comp	**$52**
Trantor SCSI Adapter	**$67**
Future Domain TMC1680 SCSI II C/K	**$165/245**
DTC3292K..7HD&4FD	$349
DTC3290AS 7HD&4FD Caching	**$486**
ADAP 1522 Card/Kit	**$79/142**
ADAP 1542C Card/Kit	**$199/245**
ADAP 1542C+ Kit	**$310**
ADAP 2742 EISA Fast SCSI2 C/K	**$319/359**
ALWAYS IN2000/IN2000-Pro SCSI1	$179/225
HFC Forex VLB SCSI Card	$184**
HFC Bus Logic BT747S	$266**
BusLogic BT747S EISA Fast SCSI2 Kit	**$395**
Ultar24F EISA SCSI HD/FD	**$365**
Promise DC2040 Caching(upto 16MB)	**$215**
AMI EISA Cache	**$499**
DPT Smart CachePlus+EISA SCSI	$427
Trantor348 Parallel Port to SCSI	$179

ESDI

Mylex DCE EISA SCSI Caching Ctlr	**$542**
DTC	**$127**
Ultra 12C 1/4MB	**$370**
Ultra 22F Caching EISA	$340

ADAPTERS

(See Local Bus and CAD Sections too)

MGP	$12
Color Card	$23

VGA/SVGA

VGA 256k	$26
Trident 512K/1MB	$35/52
Tseng 1MB	$78
Mustang 1MB Window Accel	$58
Diamond Speedstar Pro	**$139**
Diamond Stealth 24	**$132**
Fahrenheit Plus wo/w VA	$165/219
Hercules Graphite HG210SVGA 1280x1024I w/1MB	**$255**
Hercules Graphite HG420SVGA 1280x1024I w/2MB	**$440**
AMI Fast View w/2MB Weitek P9000	**$490**
AMI Fast View EISA VGA Graphics w/1MB	**$call**
ATI Ultra Grpx 1MB w/Mouse	**$239**
ATI Ultra Plus w1/2MB	**$219/245**
ATI Ultra Pro w1/2MB	**$329/365**
Genoa 7900 w/1MB	**$99****
Genoa 8560 w/ 1MB	**$199****
Genoa 6200	**$39****

MONITORS

MONO

Mono 12"	$78
Mono 14"....amber/white	$89
Mono 9" VGA	$125
Mono 14" SVGA 1024 x 768	$112

VGA/SVGA

VGA 13" .28 Color.refurb..1yr	**$160**
VGA 14" 640 x 480, .51	$173
SVGA 14" 1024x768 .39	$192
SVGA 14" 1024 x 768, .28 dpi	**$227**
CTX Autoswitch 1024, .28 dpi	$252
SVGA 14" 1024x768 .28 NonInt	$251
Black SVGA 1024,.28 I/NI	**$279/320**
CTX 14" 1024 .28dpi Hitachi NI	**$279**
Viewsonic V6E 14", 1024 .28 NI	$323
Viewsonic 15, 1280 .28 NI	$530
Sony 1430S 14" 1024 MicroPro MPRII	$563
Lion Tech 15" .28 NI	$355
Samsung 15" NI Flat .28dpi 72 Hz	$449
Sampo KDM1566 15" 1024 .28 NI	$439
Royal 17" .26 1024	***$665***
Mitac 17" .31dpi 1024 72Hz NI	**$475**
Sampo KDM1766 17"	$655
Maganavox20" 1280 x 1024 NI	**$1250**

See Many High-End Monitors in the Engineering/CAD Section.

CASES/PS

Baby Desk/Mini Tower w/ PS	**$49**
Medium Tower	**$77**
Full Tower/Super T. w. 300P/S	**$89/169**
Rack Mount W/PS	**$259**
File Server w/ 400W PS, 3 Fans..............12 F/HDD, black/beige	**$439**

DIAMOND (Black/Beige)

Baby Desk/Tower w/PS	**$79/82**
Medium Tower Reg/Big w/PS	**$89/119**
Full Tower w /PS	**$129**

External HDD Cases

1HH...65W	**$89**
1FH/2HH...65W	**$110**
2FH/3HH...65W	**$137**
SCSI Cables Int/Ext	**$9/10**

Power Supplies

PS2 200/300W	**$40/95**
Full Tower 230W	**$58**
Full Tower 300/400	**$80/154**

KEYBOARDS, MICE

Spill Resistant/Mitsumi	$20/17
MaxiSwitch / M-Click	$29/ 34
KeyTronic/**Black 101**	$32/39
Small 11.5" 84 Keys	$42
Russian Keyboard	$28
Japanese Keyboard, 106 Keys	$70
Fujitsu 3400	$46
SEJIN J-Mouse(mouse under 'J' Key)	**$89**

Also line of European/Arabic KBs

S-Mouse/TBall	$9/21
LogiTech wht box Ser/Bus	$33/45
LogiTech MouseMan Ser/Par	$64
Logitech Mouseman Cordless	$77**
Mouse Trackman Portable	$66**
Microsoft white box S/B	$39/69
MS Original S/B V. 2.0	$57/80
BLACK SERIAL	$19

HARD DRIVES

Floppy Drives

YE Data 1.2/1.44MB	$45/39
Teac 1.2/1.44MB	$47/42
Teac Dual Floppy 1.2 + 1.44 MB	$116
Teac 2.88 MB	$89
Toshiba 2.88MB	$58
(w/contl & 2.88 floppy disk)	$94

FLOPTICALS

IOMEGA 21MB w/1 Disk, Cable	$419
YE-DATA 21MB w/5 Disks	$392

2.5" NOTEBOOK DRIVES

QUN 120 /160MB 16msec	$245/419

NOTEBOOKS

IDE

ST 125-1 20MB**	$46**
ST 42MB/CON 60MB** 27 msec	$114/124**
CON 80/120MB 19 msec	$151/179
QUN 85/127MB 17 msec	$151/179
MXT 131/540MB 14/8msec	$172/740
CON/QUN 170MB 13/17 msec	$208/186
QUN 240MB/MXT 245MB Fast/15 msec	$241/227
CON/WD250MB 14msec	$217/222
WD 340/MXT 340MB 12/14 msec	$270/292
CON/FUJ 340MB** 13ms	$260/290**
WD425MB 13msec	$353
CON 510MB 12ms	**$390**
FUJ 520MB 11 msec 5yr	$560
QUN 525MB Fast	$538
CON/MXT 540MB 12/8msec	$525/660
MICROPOLIS 1.05/1.75GB 10ms	$1025/1325

SCSI - 3.5"

CON 170MB 17msec	$193
CON 212MB 12 msec	$280
MXT 245/QUN 240MB Fast	$220/240
MXT 340MB 15 msec	$330
FUJ 520/QUN 525MB 11 msec 5 yr	$593/550
MXT 540MB/CON 540 8/12 msec	$650/537
TOSH 877MB/1.2GB 12 msec	**$672/870**
MXT 1.2GB 8 msec Magix	**$1272**
MICROPOLIS 1.5/1.75GB 10ms	$1025/1325
HP1 2GB 10.5msec	$1040
ST/FUJ 1.2GB 10 msec	$860
QUN 1.0/1.2GB <10 msec	$920/1036
DEC 1.6GB 9.5 msec	$1160
CON 1.67GB 10.5msec	**$1015**
ST 2.1GB 9 msec	**$1775**
ST 41200N**	**$917****

SCSI - 5.25"

HP 1.7GB/2.0GB 11.5msec	$1830/2030
ST 1.7GB 11 msec Elite I	$1715
Fuj 2.0GB/2.4 11/12 msec	$1700/1646
ST 2.2GB/2.5GB 13 ms/11 ms EliteII	$1569/1980
ST 3.5GB 11msec	$2212

SUPER HARD DRIVES

Seagate Barracuda 3.5" HH (8 msec ....avg. seek, 4.17 msec lat., 7200 RPM)

Barracuda 1.7/2.5 GB	$1925/2100

EXTERNAL HRD. DRV. SUBSYSTEM

FOR EXT. HARD DRIVE, ADD $99

FLASH CARD HARD DRIVE

ST 75A 1.8" 5.2MB IDE<1.5MS	$484
ST710A/720A 1.8" 10.4MB/20.9MB	$888/1177
ST740A 1.8" 41.9MB IDE<1.5ms	$2068

TAPE DRIVES

(<500MB TAPE-BACKUPs)

Colorado 120 / 250MB	$99.95/167
Colorado KE-10 External kit with card	$105
Colorado External port card	$37
FC-10 high perf card	$85
Colorado Trakker 120 / 250MB	$295 / 340
Archive 250MB w/QIC, 15MB/min, 1"H	$150
Archive Viper 250MB hh SCSI I/E	$349/ 449

(>500MB for PC / SERVER)

Viper 525MB hh SCSI Int/Ext 6MB/sec	$475/575
ARCHIVE 4320 NT 2.0GB DAT DDS 3.5"	$875
ARCHIVE 4324NT 4.0GB TURBO DAT DDS-DC 3.5"	$1075
SONY SDT2000 2.0GB DAT DDS 3.5"	$870
SONY SDT4000 4.0GB DAT DDS DC 3.5"	$979
SONY SDT5000 4.0GB DAT DDS -2 3.5"	$1245
Colorado 2.4 / 4.0 GB Qic 5.25	$940/1499
HP 2GB DAT 4mm Int/Ext	$989/1075
HP 4-8GB DAT 4mm Int/Ext	$1128/1179
WANGDAT 3100 2.0GB 4mm Int/Ext	$935/1045
WANGDAT 3200 4-8GB 4mm Int/Ext	$1030/1140
EXABYTE 750MB HH SCSI MINI Int/Ext	$692/860
EXABYTE 8205 5GB HH 2yrs Int/Ext	$1415/1679
EXABYTE 8505 10GB HH 2yrs Int/Ext	$2239/2505

..(above drives require special contr & soft drivers)

TAPE BACKUP DRIVERS

Novaback for DOS//OS/2	$89
Novanet Multiuser NLM	$439
SYTOS for DOS/NOVELL, GEN	$120
ARCserve Solo	$185
CONNER-EXEC NLM BACKUP SW	$445

ERASABLE(Rewritable)

TEAC 128MB 3.5" Int/Ext	$749/859
IBM 127MB 3.5" Int/Ext	$833/943
HP 1.3GB 5.25" SCSI-2 EXT	$2799
MAXOPTIC 1GB Tahiti IIM 35msec	$2300

REMOVABLE DRIVES

Syquest 44MB Dr	$249
......W/Ext Case, Cables, Cart, Cont	$379
Syquest 88/105MB Dr	$308/469
Bernoulli 44/99 Insider	$907/840
IDE: Upto 1GB removable kits	$39
SCSI: Upto 1GB Removable Kits	$138

STORAGE MEDIA

Floppy 1.44Bulk	$.79
Floppy 1.2 Bulk	$.49
Tape DC2000XL	$18
Tape DC2120 250MB..Formatted	$18.5
Tape DC 6250 5.25", 1/4" Cartridge	$27
Tape DC 6525 5.25", 1/4" Cartridge	$31
TK50 for DECs	$26
DT-2400 2.4GB .25" Cartridge	$54
DT-4000 4.0 GB .25" Cartridge	$57
DAT 4mm 60/90 mtr	$19/29
DAT 8mm 54/112 mtr	$18/24
Syquest 44/88/105MB Cart	$62/94/85
Bernoulli 44MB/90MB 3Pk	$315/415

OPTICAL CARTRIDGES

Mag neto-Optical 650MB Cartridge	$159
600MB/650MB 5.25"	$109/149
128MB 3.5"	$59
10024 B/S WORM 5.25"	$109

SOFTWARE

SYSTEM UTILITIES & PROGRAMMING

Norton Utilities v7.0/upg/commander	$108/94/43
Norton Desktop for Windows v2.2/2.0	$104/106**
pcANYWHERE4.5/1.0 for Windows	$114/118
PC Tools 8.0a/ for Windows 1.0	$114/97
After Dark 2.0 for Windows	$25
386 MAX 7.0/QEMM v7.0	$59/69
Stacker 3 1 DOS & Windows/OS	$97/123
MS DOS 6.0/upgrade to v6.2	$48/47
MS Windows 3.1/for Workgroups	$63/47
MS Windows for Workgroups/ 5 User	$67/253
MS Windows NT/upgrade	$311/263
IBM OS/2 2.1/ upgrade	$147/99
DESQview /X v1.2	$163
Laplink V for Windows	$103/53

GRAPHICS & DESIGN

CorelDRAW! 4.0/CD/ upg/CD	$383/361/$213/197
CorelDRAW! 3.0/CD	$127
Pagemaker 5.0 for Windows	$495
Aldus FreeHand 3 1/Photostyler 2.0	$375/356
QuarkXPress for Windows	$565
HiJack Pro 2.1/2.0 for Windows	$97/87
Harward Graphics 2.0/upg for Win	$289/86
Picture Publisher for Windows 4.0	$395/195
Adobe Photoshop 2.5 for Windows	$541
FileMaker Pro 2.1	$127
Micrografix Designer v4.0/upg	$435/197
FrameMaker for Windows/upg	$572/193
PerForm PRO Plus by Delrina	$242

BUSINESS APPLICATIONS

MS Office 3.0/professional/upg/upg	$462/580/352/495
MS Word for Windows 2.0c/upg	$281/93
MS Works 3.0/Win v2.0/upg	$76/123/79
MS Excel 4.0 for Windows/upg	$284/108
MS Access for Windows.V 1.1/UPG	$308/99
MS FoxPro 2.5 for Windows/UPG	$310/99
MS Project 3.0 for Windows/upg	$418/143
Smartsuite 2.1 for Windows/upg	$445/302
Lotus 123 v4.0 for Windows/upg	$299/97
Lotus 123 v2.4/v3.4/upg for DOS	$385
Ami Pro 3.01/ upg	$239/88
Approach for Windows/upg/Improve	$239/97/93
Lotus Notes starter pack for Win	$858
Borland Office for Windows v1.5 upg	$245
Paradox for DOS v4.0/Win version	$495/125
dBASE IV v2.0 for DOS/upg	$450/99
Wordperfect 6.0 for DOS/upg	$267/99
Wordperfect 6.0 for Windows/upg	$255/99
OmniPage Office/OmniScan for Windows	$645/359
Winfax Pro 3.0 for Windows	$77
PackRat 5.0 Personal info. mgr	$277
Lotus Organizer for Win/ECCO.Super PIM	$98/75
Procomm Plus 2.1/ 1.02 for Win	$67/97
Quicken for DOS 7.0/Win v. 3.0	$43/44
Quickbooks/Win ver 2.0	$95/95

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Novell Ready and Tested. W/Remote Boot Prom, Keyboard and Monitor; Diskless.

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Portable Mechanically Protected Hard Drives for High Security Applications - Millitary and Corporate.

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Redundant Arrays of Inexpensive Drives for fault tolerancy. 5 channels and hot swapping.

$Call

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Novell or Unix Servers w/ Disk Mirroring & Duplexing, Synchronous Disk Support and Hot Swapping

$Call

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For small and medium size companies - phone system automation. PC based 2, 4 or more ports.

As low as **$5500**

EXPORT QUALITY PCs

386SX-40, 1MB, IDE, I/O, 1.44FDD, 14" SVGA Monitor, 512K Card, K/B, Mouse (Min 50 pcs)

$439

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ENGINEERING CAD/CAM

Monitors

Nanao

F340iw 15", .28, 72Hz, MPRII, Microp.	($695) $753
F550iw 17" FST 1280NI, .28, 75Hz NI	($1115) $1172
F760iw 21" FST 1280NI, .31	($2125) $2210
F550i 17", FST .26, MPRII	($1047) $1100
T560i 17", FST .28, MPRII	($1680) $1800
T660i 20" Trin, 1280, 72Hz, MPRII	($2435) $2580
F750i 21", .31, 1280, 72Hz, Micrp	($2068) $2148

Hitachi

CM1785MV 17" FST, .28. 1280NI, MPRII	($889) 930
CM2095 20" 1280 Anti Glare	($1279) $1376
CM2087 20" 1280 72Hz Microp	($1569) $1689
CM2187 21" FST 1600x1280 Micr	($1925) $1960
CM2187-515 21" 28	($2125) $2195
ACCUVUE PS-21	($2079) $2216
ACCUVUE PS-21A/PS-21 .28., Micr	($2245) $2391

Sony

CPD1430/1730 14"/17"	($563) $630/($965) $1047
GDM2036S 20", 1280NI, MPRII	($1975) $2089
GDM2038 20"	($2212) $2347

Sampo

Sampo KDM1777 17" NI 1280x1068 .28dp MRPII	$899
Sampo KDM2077 20" NI 1280x1068 .31dp. MPRII	$1495

Magnavox

20CM64 20", 1280NI, .31	($1160) $1213

NEC

3/4FGE 15", .28, 1024NI	($577) $626/($712) $738
5FGE/FG 17", .28, NI	($1076) $1151/($1295) $1405
6FG 21", .28, 1280NI	($2285) $2350

MAG

MX17F, 17" .26, 1280NI, Micro Org/Oem	($900) $940
LX1564 15" .28, 1280NI	($379) $399
MX15F 15"/15" MPR II	($469) $488/($515) $534

TOSHIBA

Toshiba 21" 28dpi.	($1300) $1450
NOKIA 17" 447B Trinitron Tube .25dpi, 1280	$($1070) $1175

CAD ADAPTERS

(Also See Local Bus and Adapters Sections)

NUMBER NINE - #9GXI/GXE

L23 WIND/ACAD, T34020, 1280, 16C	$929
L25F, 40MHZ, WIN/ ACAD, 1280, 256C	$1195
L29 T34020, 1024X768X16.7M COLOR	$1315
L11/I12 S3928, 2MB/3MB VRA.	$365/438

HERCULES

Dynamite VLB/ISA	$167
GRAPHITE 1 MB, VLB/ISA 1280 Accel.	$264/231
GRAPHITE VLB/ISA Pro, 2MB	$402
Super S XP610/821, 40MHz, 1MB	$749/1399

MATROX

MGA-ULT/1/A//2/V++//2/V//2/A	$448/783/671/637
MGA-IMP/3/V//3/A//3Z/V	$970/970/1119
MGA-PRO/4/V 4 1280X VLB/w Z Buffer	$1244/1464
Impression UltraXG3ASIC 1600, 7 MB	$3595

METHEUS CORPORATION

Premier 928 VL2(1MB)/4(2MB) S386C928	$324/559
PREMIER 928 ISA 1M/2M/4M.	$297/422/727
MODULE 1MB Memory	$120
1104 Plus 256 Hz, MultiDisplay	$1295
UGA 1228Hz 256, 60/74Hz	$1895/2095

PLOTTERS DIGITIZERS SCANNERS

PLOTTERS

HOUSTON INSTRUMENTS

Im Maker 1117, A/B, 8 Pen, HPGL	$632
DMP-161 A-D, 8 Pen, HP-GL/2	$2625
DMP-162 A-E, 8 Pen, HP-GL/2	$3439
DMP-162R A-E, 8 Pen, Roll Med	$3975
V50(INKJET A-C SIZE). ..NEW.	$1410

DIGITIZERS

SUMMAGRAPHICS

III 12x12 w/16btn or 4bt & Pen	$299
III 12x18 w/16btn or 4bt & Pen	$549

KURTA

XLP 12x12 w/4btn & Pen	$249
XLP 12x18 w/16btn or 4btn, Pen	$529
IS/ONE 12x12/12x17 4btn / 12btn / Pen	$329/530
(IS/ONE also available w/Cordless 4btn or Pen)	
XLC 18 x 24/24 x 36	$1070/1260

CALCOMP

CALCOMP 12 X 12/12 x 18	$279/629
CALCOMP 18 X 24	$1275
CALCOMP 6 X 9/12 x 12 P Series	$439/485

SCANNERS

LOGITECH (HAND-HELD)

SCANMAN-COLOR	$415
SCANMAN 256 / CatchWord PRO	$180/209
SCANMAN 32 / CatchWord PRO	$115/125

MICROTEK

SCANMAKER II/IIXE 1200dpi, MAX	$851/1140
SCANMAKER 1850 1850 dpi MAX	$1360
MS-II OCR SCANNER	$669
ADF-600 Automatic Sheet Feeder	$480
SCANMAKER 45t for Transparencies	NEW

RELISYS

(Cold Tube Design-Long Life, 4 Times Microtek e.tc)

COLDSCAN 800 dpi..w/PPLE	$975
COLDSCAN 600 dpi..w/PPLE	$825
COLDSCAN 600 dpi Grayscale..w/PPLE	$665
..Calera WordSacn w/Scanner	$64
50 Page Automatic Document Feeder	$394

ARTISCAN

600/800dpi with colorshop.	$770/1040
1200C 1200 dpi, with color shop software	$1490
..Picture Pub LE or WordScan OCR	$64
..Slide Scan Kit for 6000C/8000C	$550
..Slide Scan Kit for 1200c	$650

UPS's

AMERICAN POWER

APC-BK250, 7 min, 386SX, ws.	$99
APC-BK400, 10 min, 286, 386SX, ws	$163
APC-BK600, 15 min, 386 486 FS	$265
APC-BK900/1250, 15 min, Multiple FSs.	$379/506
Power Doctor/Call UPS	$70/99
SMART UPS (ON-LINE/AUTO BACKUP)	
APC 400, 10 min, 286, 386 FS/WS.	$304
APC 600LS, 15 min, 386, 486 FS/WS	$394
APC 900, 15 min CAD/CAM WS/FS	$569
APC 1250, 15 min, Multiple FSs.	$747
APC 2000, 20 min, Mini Computers	$1170
Matrix UPS 3000VA, Multi-server	$2679
SERENA 5.25" 300VA UPS mounts inside PC	$call

INTERFACE KITS/SMART MONITORING

Power Chute SCO Xenix	$84
Power Chute Plus for Novell/Unix, Xenix	$72/115
UPS Monitoring Board for Novell	$69

PRINTERS

Star Micronix NX1001 9 Pin. 120/220V	$134/144
Epson Action 2250 9 pin	$119
IGOR 132 9Pin Wide **220V** (Cyri..).in stock	$139

CANON

BJ 200, 360dpi, 49k, 7fnts, 248cps, 4ppm	$319

OKIDATA

OL400e, 4ppm, 300dpi	$535
OL810, 8ppm, 300dpi	$965
OL830 Plus, 8ppm w/ 2MB post script	$1189
OKI ML184T dot matrix, rugged industrial	$245
OKI ML320 320cps	$315
OKI ML590 24 pin..auto form sensing	$464

PANASONIC

KX-P2123, N-Carr, 240cps, 360dpi, 10fnts	$255
KX-P2124, N-Carr, 320cps, 360dpi, 12fnts	$335
KX-P1624, W-Carr, 192cps, 360dpi, 14fnts	$365
KX-P4410, 5ppm, 300dpi, 28fnts, 512k	$629
KX-P4410, 5ppm, 300dpi, 28fnts, 512k	$629

CITIZEN

200GX 9 pin...dual feeder, park	$159
GSX230 24 pin. 8fonts, 270cps	$240
color option for Citizen 80 col printers	$42
GSX240 24 pin wide....300cps, 13 fonts	$285
Notebook Pr. CTZPN48 w/bat	$290

Laser Ext Memories

HP IIP, IIIP	2/4MB	$104/179
HP II, IID	2/4MB	$114/184
HP IIISi	1/4MB	$69/188
HP IV	**4/8MB**	**$169/359**
Pan 441/2/30, 4450i	2/4MB	$138/198
Pan 4450	1MB	$129
Pan 4455	2MB	$154
Oki400	2MB	$109
Oki 800, 820	2/4MB	$113/183
Oki 810	1/2MB	$104/179
Epson 6000	2/4MB	$124/189
Epson 4000/8000	1/4MB	$124/199

(Printer sharing: Please see the Networking section)

FAST MATH-COs

by CYRIX / INTEL / IIT

2C87-10/XL	$32/$39
3C87SX-16/20/25	$45
3C87SX-33	$49
3C87DX-25/33	$49
3C87DX-40	$49

SIMMS/SIPPS

256x9/70	$10
1Mx9/70/60	$42/49
4Mx9/70/60	$149/165
DRAMs, and other SIMMs	available

ESIMMs - SUN / PC / LaserJet

1M/2M/3M x 36 - 80 / 70	$Call

MULTI MEDIA

Mitsumi Kit 350msec, 150 KB/S	**$156**
Hitachi CD-ROM CDR6700 260ms. 300kb/s	**$495**
NEC CDR-84/74 280ms..300KB/scl/E	$449/555
NEC 3XI Multi, 195ms, 450kb/s	$499
TOSHIBA 3401B/E 200ms, 300kb/s Int/Ext	**$365/497**
Texel DM3028/5028 240ms, 335kb/s Int/Ext	$354/426
Teac CD50, Multispin, 270ms, 300kb/s	$309
SONY CDV561, 295ms, 300kb/sec	$336
Panasonic 562 320ms, 300kb/sec	$224
6PAK [World/USAtlas, Chessmster, Typing Tutor, Anmals&Ency]	$84

(Over 200 CD-ROM titles in stock (call for price sheet)

Sound Boards / MPC Kits

Hyena SoundBlaster Comp. Sound Card	**$49**
Hyena w/Speaker, Joystck, mcrphn, games	**$75**

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Pro Audio Spectrum 16....ORG/OEM	$159/142
Pro Audio Studio 16/Power Pack	$199/69
Fusion Double CD16 Kit Int/Ext	$465/478
Pro 16 Multi-Media System/II	$669/810
Pro Movie Spectrum/Studio II	$289/329
Midi Mate/CDPC XL	$49/1059

CREATIVE LABS

Discovery 8/16 Upgd. Kit	$380/460
Edutainment 8/16 Upgd. Kit	459/519
Software Dev. Kit	$99
SoundBlaster 16/16ASP	**$169/193**
Sound Blaster Voice Editor	**$55**
Wave/Video Blaster	**$229/309**

TRUE VISION

Targa+16/Bravo 16 1MB	$12391065
Atvista 2/4MB	$2477/3300

MISC

Logitech Fotoman Digital Camera for PC	$465
Logitech SoundMan 16	$149
Intel Smart Video Recorder	**$520**
CARDINAL TECH Digtl Sound Pro 16/Plu.	$145/186
Video Logic Captivator Kit, win3.1	$369
Future Domain SCSI CD-ROM Kit	$69

COMMUNICATIONS

96/24 Snd/Snd&Rec Fax/Mod, MNP5 sft. Int	$30/39
96/24 S&R F/M, MNP5 Hrd, v. 42 bis/Pocket	$63/89
144/144 S/R F/m, v.32, v.42, MNP5, I/E	$122/174
144/144 Pocket S/R F/M, v.32, v 42, MNP5	$199

THE COMPLETE PC

The Complete Comm Reg/Gold	$299/389

AT&T Paradyne

DataPort 14.4 Fax V.32bis External	$249
DataPort 14.4 Fax V.32bis Internal...[205*]	$225

US ROBOTICS

9600Sprtstr Modm V.32 V.42bis Int/Ext	$146/152
9600Sport Mod/fax V.32 V.42bis Int/Ext.	$159/168
14,4 Sport Mod V.32bis V.42bis Int/Ext	$155/173
14,4 Sport Mod/Fax V.32b V.42b Int/Ext.	$160/192
14,4 sporst **Mac** Mod/fax	$214
14,400 HST Courier Dual V.32bis	$759
Modem Sharing Single/Dual Kit	$495/889
World Port PCMCIA 14,4 with Fax	$435
96/96 USR F/M, I/E	$162/168
144/144 USR F/M I/E	$168/193

INTEL

Satisfaction 100/200/400+Fax Int.	$105/295/389
Satisfaction 400+Fax Ext	$409

PCMCIA

144/144 F/M v.42, MNP2-5	$306
96/24 F/M v. 42, MNP2-5	$195

NATIONAL SEMI-CONDUCTOR

TYIN2000 Fax, Mod, Answer M/C, Audio Play	$175

ZYXEL USA

U-1496 +/E 16.8Ext, 14,4 Fax, Voice	$355/675
U-1496B 16.8Int, 14 4 S/R Fax, Voice, Win.	$355
U-1496B+ 19.2Int, 14,4 S/R Fax, Voice, Win.	$460
U-1496+/E+ 19.2Ext, 14,4Fax, Voi, **Mac**	$495/675

NETWORKING

ETHERNET Adapters

NE 2000 Comp 16bit Coax/10BT	$49/64
NE2000 Comp 5 Pack	$235
D-Link 16 Bit 10 BaseT 1/6 Pack	$74/429
Intel EtherExpress 16 Coax/TP	$129/129
Intel EtherExpress 16 MCA/16 MCATP	$179
Intel EtherExpress 32 EISA Coax	$424
Intel EtherExpress Flash/C	$145
SMC Ethercard 16 Ultra Coax/6 Pk	$109/574
SMC Ethercard PlusIA for MCA/TP	$179
SMC Ethercard Plus Elite 16 CoaX/TP	$119/95
3 Com 503 Etherlink II 16 Bit COAX/TP	$169/175
3 Com 507 Etherlink II 16 Bit Coax/TP	$279/299
3 Com 509 Etherlink III Coax/5Pk	$135/615
3 Com 509 Etherlink III 10BT/5Pk	$145/645
3 Com 579 EISA Coax/10 BT	$239
NE 2000 Plus Combo/5 Pk	$136/582
NE2000 Foyle Coax EISA	$725
Asante Etherpack Coax/10 BT	$189

TOKEN RING

Intel Token Express 16/4-16 Bit ISA/MCA	$429/469
SMC Token Ring Adapter 16/4-16 Bit	$345
3 Com Tokenlink III 16/4-16 Bit ISA/EISA	$455/635
IBM Token Ring Adap II	$289

POCKET LAN ADAPTERS

Advanced LAN Net Coax/10 AT	$145/155
X/R Com Pocket Adapter III Coax/10BT	$274/279
Pocket ENET III Combo	$325
Pocket Token Ring Type 1/3 16MB PS	$559

ARTISOFT

AE-2/3 Lantastic Kit	$445/525
AE-2/3 Lant Kit for Win	$499/575
AE-2/3 16 bitAdapter	$195/231
Z-2 Lite Kit 2 Stations	$94

PCMCIA ADAPTERS

IBM /Thomas Conrad/XIR Com ..Available......

ARCNET

16 Bit Star/Bus Combo	$64/74
4 Port Arcnet Passive Hub	$15
8 Port Coax Stackable Active Hub	$139

CONCENTRATORS/ MAUs/HUBS w/SNMP

Allied Telesis 8 Port/12 Port	$309/519
Asante 8 Port Concentrator/12 Ports	$239/474
Asante 1012 12 Port Hub	$835
Asante 1701 Smart Hub 12 Ports/SNMP	$965
D-Link 12 Port 10 BaseT	$495
D-link DE-1500 w/SNMP	$875
D-link K1032 32Port w/SNMP	$1199
David Sys. ExpressNet 12 Port w/SNMP.	$2545
Intel EE 12 Port 10 BT Hub Int w/Harmonica.	$634
Intel EE 12 Port Hub Int EISA w/Harmonica.	$699
SMC 8 Port Concentrator/12 Ports TP	$325/599
Synoptics 2800 A 16 Port w/AVI	$699
Synoptics 2803 16 Port w/AVI	$749
Synoptics 2804 16 Port w/Fiber Optics	$951
3 Com Link Builder 3C621 12 Port	$729
3 Com Link Builder TR 3C510180/82	$1751/3599

BRIDGES

Allied Telesis local Ethernet Bridge	$1645
3 Com 802C NetBuilder local think Ethernet	$3399
3Com 750 NetBuilder Token Ring local	$4714
3Com 5823C NetBuilder Remote	$5319
Synoptics 3323S Ether Local w/AVI	$2353
Synoptics 3522 Token Ring	$5319
Novell Multiprotocol Router v 2.0	$669

NETWORKING

NOVELL NETWARE

Ver 2.2 5/10 User	$455/1050
Ver 3.12 5/10/20/50 User	$540/1230/1680/2462
Ver 3.12 100/250 User	$3416/6216

• ***NEW RELEASE VERSION 4.01***

Ver4.01 5/10 User	**$812/1523**
Ver4.01 25/50 User	**$2218/3300**
Ver4.01 100/250 User	**$4550/6050**
Ver4.01 500/1000 Us	**$14823/26703**
	upgrades available
NOVELL-LITE	$69

WINDOWS FOR WORKGROUP

..ADD-ON STARTER KIT	375
..ADD-ON USER KIT	$189
..ONLY SOFTWARE	$68

NETWORK HARDWARE

ETHERNET RG58 CABLES

Readymade w/Connectors 10'/25'/50'	$4/8/12
Bulk 1000' SPOOL	$89
Terminators / All Conn.	$1.50

PRINTER NETWORKING

Intel Netport II Coax /10BT	$499
Intel Netport II for Token Ring	$725
PC Based Print Server 1 MB	$199
PC Based Print Server 2MB	$269

PRINTER SHARING

AUTO SWITCHES

2 Computers to 1 printer Electronics	$24
4 Computers to 1 printer Electronics	$40
2 Computers to 1 Printer Bi-directional	$45
4 Computers to 1 Printer Bi-directional	$61
2/4 Auto-switches Uni-directional	$25 / 39

ADVANCED SHARING

PrinterLink Par Line Extender Centr(w/50' Cab)	$69
PrinterLink Par Line Extender DB-25(w/50' Cab)	$69
ModularLink Printer Net Transmitter DB-25(w/25'C)	$40
ModularLink Printer Network Receiver Centr0	$48
ModularLink Printer Network Starter Kit	$106
PrinterNET Printer Net Transmitter DB-25(w/25'C)	$69
PrinterNET Printer Net Transmitter Centronics (w/25'C)	$69
PrinterNET PrinterNet Transmitter Centronics(w/25'C)	$163

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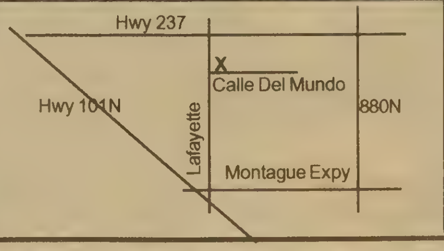

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The family business: Gary, Doug and Cathy Carlston in the '80s.

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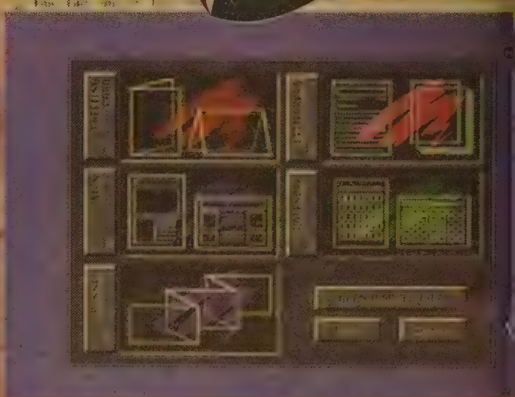

Delu[illegible] [illegible] product's new version

Photo[illegible] Brøderbund Software

New Horizons In Popular Computing

An Interview With Brøderbund's Doug Carlston

By Mary Eisenhart

"The world has changed enormously, and it's going to keep right on going. People who think, 'Well, that's it, that fixes it,' aren't paying attention. There's a fascinating world of opportunities coming as the information superhighway finally gets connected into the home."

—Doug Carlston

When we last did a cover story on Brøderbund Software in the fall of 1985, it was still very much a family business. Founded in 1980 by brothers Doug and Gary Carlston, its initial product line was heavily dependent on games written by lawyer Doug in his spare time and distributed by Gary to a host of small computer retailers.

By 1985, Doug, Gary, and their sister Cathy were fully occupied by a company enjoying the blessings and challenges of its first blockbuster hit, The Print Shop. Waiting in the wings was Where in the World Is Carmen Sandiego?, an educational game based on the brothers' childhood fondness for looking up obscure factoids in almanacs.

In the interim, Print Shop has grown and prospered, expanding into an entire product line of applications and accessories and now including a sophisticated new Deluxe Edition. Carmen has become a fixture in the home, in the schools, online—and perhaps the first software character to have her own show on PBS. And while other early computer-game vendors have either disappeared or migrated to the cartridge business, Brøderbund has had one success after another by understanding and adapting to the needs of the home-computing market, from preschool to productivity.

Brøderbund went public in late 1991 and has continued to report gratifying increases in revenues. These days Doug Carlston serves as chairman and CEO; Gary and Cathy retired in the late '80s because, as Doug says, "it had gotten big enough that it wasn't fun anymore."

Despite changes in the business and changes in the company, Doug Carlston is clearly still having fun. We recently visited Brøderbund's Novato headquarters to catch up on things.

"We're looking for a president," says Carlston. Current president and COO Ed Auer, who came from CBS Interactive Learning in 1987, announced his impending retirement in October, "so sometime in the next year we have to come up with a president."

And then, "There's probably more good product coming in and being developed than I've ever seen before, and that's exciting."

Are you still using the model you were using before, where some products are developed in-house and some comes in from outside?

Most of the ideas come from the outside. Some get spec'd inside.

We now have something like forty-five programmers on staff, so we do a lot of the work here. We find that a lot of time the design community hasn't kept up with the technical changes. Some of the design community can stay cutting-edge on the technical side, but a lot of it can't.

So we basically offer as a service the animation facility, the sound facility, and the programming facility. And there's

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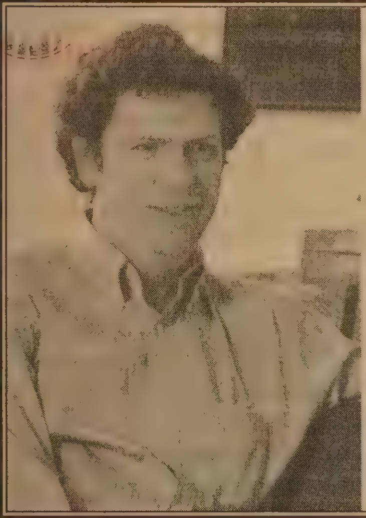
enough people here—forty-five programmers, about fifty graphic artists and animators, and a ten-person sound department now. It's a service center, and we charge it out to individual projects.

Everyone's different. Print Shop Deluxe was spec'd inside and programmed outside by a group up in Oregon that had good printing technology. The original Kid Pix was programmed and designed by a professor up at the University of Oregon; all the following products, Companion and Kid Cuts and so on, were designed here.

And the ports were all done here. Rand and Robyn Miller [authors of the CD-ROM adventure Myst, reviewed this issue] are Mac-only people; they don't even allow a DOS machine in their homes, so that gets done here.



"People say, 'Well, it must be easier now, the shakeout has occurred.' And in fact the opposite is the case—as the market grows, the opportunities for new companies emerge, and there's more and more companies all the time. Including a lot of very good ones."

Leslie Grimm's stuff is a mix. Some stuff is done here—I think a lot of Treehouse was done here. With Backyard on the other hand, she wanted to hire her own programmer. Typically if you do that you get a higher royalty. The more you take responsibility for, the higher a royalty you get. A lot of outside designers go back and forth on the headaches versus the rewards.

So it's all over the map. We are not primarily an in-house operation, but we have a lot of in-house capability.

The most exciting stuff that's come in from the outside, whether designs or finished product, is stuff that's outside of any category we might have anticipated. Myst and 3D Home Architect are good examples.

Rand and Robyn just told us they were moving into educational software; they'd done Spelunx, and suddenly Myst is the next thing to pop out. It's a fabulous product, and light years beyond anything they'd done before, because they started fooling around with this 3-D architecture stuff.

3D Home Architect was done by a contractor who knows how to program and was doing this for himself on his own nickel. I used to be a contractor, and I said, "I'd *love* to have this tool. It would have made life infinitely easier."

So there's a level of whimsy or unpredictability about how that stuff comes in. You never know. But the most exciting stuff is often something that doesn't fit any preconception of what we'd like to see.

How has the business changed?

You know, it was a small community. We all knew one another, and part of the fun of it was going to the shows and seeing all your friends and getting caught up. It was more of a social environment than a cutthroat business, and people don't often understand that. We partied with our competitors rather than trying to cut their throats.

There's more competitors now than ever. The Software Publishers Association had twenty-five members in '84; it has almost 1100 now. People say, "Well, it must be easier now, the shakeout has occurred." And in fact the opposite is the case—as the market grows, the opportunities for new companies emerge, and there's more and more companies all the time. Including a lot of very good ones.

Remember, I think, in the late 1800s somebody introduced a bill into Congress to close the patent office, on the theory that everything had been invented? And I have had some interview questions four or five years ago from people saying "Wouldn't the consumer marketplace dry up and blow away, because basically all the apps had now been done?"

And of course there's nothing sillier in a market like ours—the only thing that's sure about it is change.

But I know what the guy who did the interview was saying—"Well look,

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every game seems to be a knockoff of this or that, they're all sort of copies. And all the major business applications have been done. Therefore we should pack up and go home."

I don't *think* so...

Well, you could take it either of two ways. You could say, "C'mon, you guys, let's see some more innovation," and I think it's true in any industry that there's a certain amount of copycatism in the market, where people are just making incremental changes.

But then there's a lot of breakthrough stuff that comes along. If you look back in the mid-'80s at the early learning category, and what it's like now compared to then, the quality and kinds of software are enormously different.

I'm fond of some of the things that technology makes possible. 3D Home Architect won't really run on anything slower than a 486 machine. I've got a 386 at home, and you drop a camera to take a view of your living room, and you go eat lunch and come back when it's done. With a 486 it's a couple seconds, and it works fine.

This is essentially CAD for normal people?

It's CAD for dumb people. *I* can use it. You can throw together a house or a bathroom—*really* quickly. I can do a whole three-bedroom house in half an hour with it, and have everything in there—electrical wiring, all the windows. You can do elevations, you can do these kinds of overview things where you look down on the house. You can drop a camera anywhere and get a quick snapshot, with all the furniture, what it looks like. You can color everything the way you want to color it.

It doesn't have wallpaper. But it does have the full range of paints you can put on the walls, and so forth. It's fun—America's biggest hobby is reinventing the home, so it's something that I find directly applicable.

Like all these people who spend their Sunday afternoons going to other people's open houses, when they've got no intention at all of buying a house.

I know, I know. Just for the fun of it.

And even Print Shop Deluxe and its whole move into higher-quality printed output—first laser printers, and now we're getting some great stuff over on the color side of the consumer market. It's amazing. You can just get incredible quality.

So you had to move from bitmapped to object graphics. And at the same time, it starts opening up worlds that weren't really possible before—things like scanning in images and using them. Because nobody wanted those rendered into crude bitmaps, but if you can get nice high resolution and overlay it with what looks like professional color output, then you've got a much bigger market, and it's a lot more fun.

When the first Print Shop came out, it was crude. It was jaggy. It was laughable by current standards. But at the time it was a miracle.

Our big concern was, people didn't have printers at home. People said, "Why are you trying to sell essentially a home product, when all the printers are in businesses?" The truth was, the initial data showed that it was mostly bought by institutions and businesses. Church bulletins, retail stores with banners in the windows, that kind of stuff. But obviously the market caught up, and the market's catching up now.

We have a PowerPC upstairs, and we recompiled one of our applications—I think it was Print Shop Deluxe—on it just to see what happened, and it runs about seven times faster. That's an enormous performance improvement.

And that means you can put all kinds of stuff in there!

Yeah, it's just like when CD-ROM came along and people said, "Well, doesn't that just mean a little more of the same?" And the answer is well, yes and no. It's just a storage device, and that's absolutely right.

But there's all kinds of things we simply had to eliminate doing in the old days, the floppy days, that we can do now that we have CD-ROM. Living Books [*Just Grandma and Me*, *Arthur's Teacher Trouble*, and new releases *The New Kid on the Block* and *The Tortoise and the Hare*] is a good example. You just couldn't have that much digitized speech until you had 80 or 100MB.

Candidly, if you're going to do kid stuff and you put something on twelve disks, you've lost the kids. And concerns were really rising, in the consumer market anyhow, about things that essentially trashed your hard disk—if you had a 100-meg hard disk, you didn't want to devote 20 megs to one app. It was like saying, "I have a bookshelf, and I can keep any five books I want on it." Well, that's great, but if you'e a reader that's not particularly satisfying.

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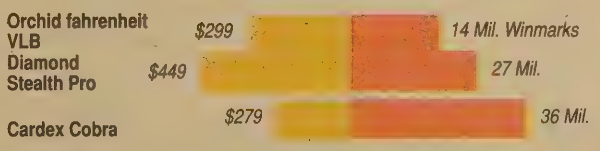

ZD Winbench 3.11 Test, Oct. 1993; Resolution 1024 x 768 x 256 colors. Test performed with Micronics JX-30VL motherboard, 4MB memory, Intel 486DX2-66 CPU and standard Non-interlaced VGA monitor; suggested retail prices for 2MB memory

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modal environment, like the record collection, but it also got much closer to plug-and-play for kids. It allowed digitized speech—it's like bringing speech to silent movies. It had that kind of impact, especially in a couple of areas we were really interested in. In pre-reading, early reading, speech is really important. You want to give the kids all of their cues verbally rather than textually. Text is what you're trying to teach, and it's a major handicap if they already have to be able to read in order to figure out how to use a thing that's supposed to teach them how to read. Language arts is another interesting area.

But we're also quickly finding that there's lots of other apps. The fun thing about Myst is just that Rand and Robyn got all caught up in this StrataVision 3-D modeling thing. I went up to their house and spent a weekend with them—we would make a kind of a smooshy black thing, and then we'd model it into a volcano, and we'd texture-map it with rocks, and then we'd add mist and smoke, and then we'd do a fly-by.

"There's all kinds of things we simply had to eliminate doing in the old days, the floppy days, that we can do now that we have CD-ROM. Living Books is a good example. You just couldn't have that much digitized speech until you had 80 or 100MB."

And while the fly-by was being calculated on the Quadras we'd go off and have lunch, because it's not a real fast process!

But the idea of taking a whole world and modeling it in the kind of intricate detail you see in this thing—

You couldn't do that on the IIe.

You couldn't. You couldn't do it.

And the truth is, we're still having trouble getting used to that. The truth is, they could have done this a lot better if they'd used a Mac front end with an SGI back end. But the tool sets are so much better in the Mac world than they are in the Silicon Graphics world that until all the tool makers put that kind of capability in the tools, it's hard to do. Pixar already does it—with Renderman you can do that.

But StrataVision, I guess, didn't have that capability yet, so they were buying Quadra after Quadra and lining them up. And they'd do one image, and they'd run it overnight, and they'd go to the next machine and do one image, and run it overnight. You end with these images that are way outside what you could do in a floppy disk product.

A screen's bigger than a whole game was before.

Yeah. So the world has changed enormously, and it's going to keep right on going. People who think, "Well, that's it, that fixes it," aren't paying attention. There's a fascinating world of opportunities coming as the information superhighway finally gets connected into the home.

We've basically got it up to about the last mile. The phone companies have ISDN right up to about the last mile. The cable people obviously have the broadband one way into the home; they can get it two-way into the home, but they still have to learn about switching technologies and billing technologies to be where the phone companies are. So the phone companies are probably a little bit ahead.

Once you have that you can create virtual communities. You can create universes in which you walk around and talk into your little Apple microphone and literally are heard by everybody within a virtual distance on the screen from you. That's not a hard thing to contemplate.

When Minitel came out in France, they discovered to their shock, and I think to their horror, that 70% of the usage was chat mode.

Prodigy made the same mistake, and they're still figuring it out.

They're still trying to figure it out. But basically, it allows people not only to extend their own worlds in terms of picking your friends from a much larger potential pile of people—

To have communities based on affinities rather than location?

There's a lot of that, but there's also the capability of what-iffing your life.

In other words, you don't have to project yourself, you can project a persona. If you're fourteen, it doesn't show. If you're eighty-seven, it doesn't show. If you're handicapped, it doesn't show. If you think that you're too fat, it doesn't show. You basically can project any persona you want, and then people can deal with the persona.

Somebody at one of the online systems was telling me they did a check on one of their chat rooms, and they found that two-thirds of the women logged on were actually men, because they wanted to increase the number of interactions they had with other people and found that they got a much higher response rate if they logged on as women. This was early on, when it was like 95% men and 5% women.

There's also that quality of "I can be anything I want here. I'm not locked into the characteristics that came with the body I was born into." And there's certainly a certain amount of, I don't know, almost personal voyeurism, that creeps into the market as a result.

But it opens up opportunities for not just multiplayer games, but a much richer and deeper level of interaction with, as you said, affinity groups that you might have a hard time finding, not only if you don't live in a big city but even if you do live in a big city. It's just much easier.

On AOL the other night we were having a chat in the Grateful Dead area and this guy says he's the only Deadhead in Nebraska. This is probably a slight exaggeration, but now he can get online and trade tapes and talk to people all over the country.

Yeah. It's an interesting area.

I was talking to [*Wired* editor] Kevin Kelly the other day about the WELL, and he was saying that one of the things that happened when the WELL started to grow was that it segmented. It had been a single community up until then, and then there's some kind of maximum size at which people start losing the sense of community.

It's true.

And then it tends to bifurcate or trifurcate—it breaks into chunks. So you keep whatever is that comfort level. Sometimes it's topical, but even if everybody has interest in the same topics, it still bifurcates.

There's all kinds of rules of social behavior that are starting to emerge out of the virtual existence. I know that companies had a lot of trouble with LANs when they first came out, because people didn't know what appropriate behavior was. People would often say things that appeared much harsher in text than they would ever say face to face with people, both because they felt somewhat insulated from it and because they couldn't send visual signals to dampen down the impact of what they were saying. You could criticize somebody and smile at them, and they'd take it a particular way. If you type it, they don't see the smile.

And so there's been a lot of need for retraining—how do I behave in this particular environment as we go forward? Which I think is fascinating stuff. It's really interesting to see how it goes.

Also, I understand that in most of these chat modes, you have the opportunity to zero somebody out. If you don't like what they're saying, you can make them a nonperson on your machine. Which is a frightening concept!

Do you think that as we get this fiber to the home that all those etiquette issues and online ambiguities are going to get better or worse? You've got more information with video and sound, but you've also got more issues of what you do and don't want people to see.

Actually, Esther Dyson wrote a nice piece last week on explicitness and the need for inexplicitness in our lives. As long as they are administrative, processes can probably benefit from rationalization, pushing toward rule-based systems, and making things explicit. But to the extent that the processes are creative, explicitness may handicap or maybe actively harm the interchange of ideas in the community that creates ideas.

She brought up as an example the prenuptial agreement. It may be very good at defining exactly what the duties of each person are, and in that sense may prevent certain marriages from taking place that shouldn't take place. But on the other hand it might destroy relationships, too.

Which is a good point, because an awful lot of what you're trying to do is create something that's greater than the sum of the parts. And that's true with almost all creative activities.

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You *want* to evoke things that are not explicity stated.

I think one of the reasons kids prefer cartoons to movies that have real people is that there's a level of inexplicitness there. It's not that they like animals better than people, it's that when it's a cartoon character, they can impose whatever they want on it. It can be a person or not; if something happens to it, they don't have to deal with it as if it were violence to a person. It's a level of abstraction that's useful, not only to kids but I think actually to adults.

If you look rationally at this process as we get into, if you will, a real interactive visual medium, I think you'll find, for example, that people don't have a real strong interest in being seen when they're talking electronically.

You get a lot of anxiety expressed about "What if I just got out of the shower?" "What if my hair's a mess?"

They wouldn't mind having an iconic representation of them. They wouldn't mind being able to communicate through avatars, like in *Snow Crash.* That's probably fine, although it's not clear what level of visual cuing you're going to have.

I was trying to imagine how you'd do it in *Snow Crash.* You're wandering around, you're talking, the other person's hearing you—do you do an aside to your avatar, saying "Smile now five seconds, and then drop smile"? Or are you covered with a whole series of sensors?

Down at Colossal Studios they just came up with an animation process that involves wiring a person; the person goes through the antics of the character they want to animate, and it's translated real-time, superimposed real-time to the animated character.

It's supposed to cut the development cost of cel-based animation substantially. It's done on one of the SGI machines, and it's done very, very fast. They go in and they do touchup afterwards and clean it up, but it's a very fast technique.

But it doesn't seem at all practical as a broad-based consumer technology. We don't want to get wired every time we go on the net. That seems kind of silly.

A lot of things about the *Snow Crash* universe, the Metaverse—I can't quite figure out how you'd get to all that. But there are a lot of things about the book that I think are absolutely right. The concept that if you're going to make a Metaverse work, it has to have its own economy. Fundamentally. I can contemplate a virtual street in which you walk along the street, talk to people there, and every door you go into, that can be a chargeable event. Every door can be a channel on TV. It can be video on demand. It can be all these other things.

That's a perfectly rational way of contemplating this superhighway.

The big problem I've got with the information superhighway right now is that all the carriers of information are trying to be content providers too, and they're trying to lock it up. Whether it's the carriers trying to gain monopoly positions through integrating the multiple sources into the home, or whether they're trying to buy the content providers, on some kind of screwy idea that if they own the content providers—which is I guess where they figure all the profit is—they can feed their own channels and gain some sort of competitive advantage over everybody else, I'm not quite clear. I just know that they don't think that being a common carrier into the home is that good a deal.

Mitch Kapor has what he calls his nightmare scenario —500 channels of all the Stallone and Schwarzenegger movies-on-demand you could want, and then there's the Hair Club For Men channel.

Well, if they own the content, they'd try to sell their own content over other stuff. That's true.

Although we had the Cap Cities/ABC folks in the other day. They're not in that particular battle right now, but they said, "You know, this 500-channel thing is complete nonsense."

All the plans have a maximum of 150 channels, and the rest are video on demand. All they're really doing is time-shifting a limited selection of movies so that it feels like you can get it instantaneously—they start ten minutes apart or whatever.

They figure that if you channel surf, which is what at least the male portion of the species does incessantly, 500 channels takes 47 minutes. Which means that one check through the channels wipes out your entertainment evening. It would destroy television as a carrier of advertising messages, which is its main source of income, so they don't want to do that. And there's no perception of need on the part of the consumer for 500 channels.

New ideas do come along, and what

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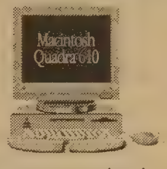

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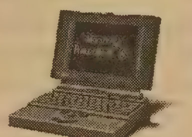

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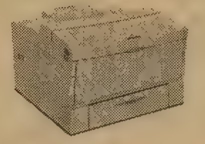

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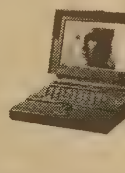

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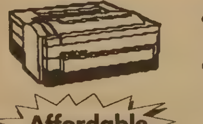

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you will probably get is a certain amount of segmentation of the market by special interests. But that almost necessarily means that it's not going to appeal to a big chunk of the audience.

Look at what's happened with radio. With the exception of some of these closed-band radios that only broadcast in Farsi and you have to buy a radio that's specifically tuned to it, most radio actually settles down into one of three or four very conventional slots. There's a big chunk of radio that plays music to people whose musical tastes were formed in the '60s. There's a bunch of current pop stations, there's a few classical stations, and there's the NPR style news-oriented stuff. There's not a whole lot else—there's country and western. And you get a heavy level of redundancy very quickly.

And it's very formulaic.

It's very formulaic. And that happened slowly, as the ones that weren't formulaic got pushed out of the business because they weren't getting the advertising revenue.

So do you see the same scenario being reenacted?

Well, I think that people that predict this is the demise of the broadcast stations don't understand the extent to which the broadcast industry has fine-tuned its act to hit the lowest common denominator and pick up the maximum advertising revenue out of it.

And everybody who thinks we could have a BBC doesn't understand—the BBC will not get the advertising revenue. It won't compete if it's on an equal footing.

So unless there's a different way of paying for it—that's the whole concept behind cable. If you can put a premium on channels, premium channels work. Disney Channel works, if you can get enough people to decide that they want to lock their TV on the Disney Channel so it's all the kids can see; you don't have to worry about them seeing *Debbie Does Dallas* accidently because you weren't at home or weren't in the room at the time. You get a market for that sort of thing, and then you get the channels that do *Debbie Does Dallas*, and you charge for those too.

But that's a different universe. I can see in the Metaverse you'd make both possible—you could have doors that people walk through for free, and you have other doors where you charge admission. Obviously people are less likely to walk through those doors unless they know what's on the other side, so you suddenly have a world full of advertising. Virtual advertising is relatively easy, although I'm not sure Prodigy showed us the way.

I did my thirty days on Prodigy and gave up.

I have to confess to being in the same boat. I use America Online all the time.

I use it and the WELL a lot.

The WELL's enough pure text-surfing that I don't have a lot of time for it. The truth is, even on America Online, I do two things all the time and other things occasionally. I have my whole family on it, and it's my Internet mail connection. So it's how I get to everybody.

They're going to have a full Internet connection soon, with ftp and everything; ftp with an AOL interface would be a wonderful thing.

It would be terrific. The interface is one of the best things going for America Online.

A lot of people on the WELL whine because the interface on AOL gets in their way, but a person who can use the WELL proficiently is not AOL's target market. I get a fair amount of email from forum users who clearly think AOL's interface is too hard.

The truth is, if you describe this uni-

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The trouble is, most content is either very fungible—you can multi-source it, and therefore it's very hard to get value around it—or it has a very high decay rate because of its time value. All these networks are big enough that unless people are targeting that specific information content directly into a vertical channel, they don't have a whole lot to offer out there.

I don't know how many times I've had the Hearst people or Times Mirror or whatever come in and say, "Here's what we've got. You want any of it?" And I say, "No, not that I can think of, why?" And they say, "Well, we want to get into multimedia."

I actually had this experience in New York just last month. Some very talented film guys, who'd won a bunch of Oscars, had been hired onto one of these major media groups. I said, "What's your experience been?" They said, "Well, we had a company in the other week, and we said, 'Look, we want to focus on skiing. We've looked at all 125 magazines that we have, and this one has the highest computer ownership among its readers.' And they said, 'Sure, we see a way that we could do a great instructional ski thing—we'd do it on CD-ROM, we'd do voice instruction and we'd get one of these great skiers...' And they went on and on."

At some point they realized that the magazine wasn't intending to pay them to do this, but was hoping that they would do this on their own. They started talking about joint venture, and people got a little more remote, and finally the magazine said, "Well, what we really want to do is license the use of our magazine name." The people rolled their eyes and said, "Why? Why? It doesn't add anything." They said, "But you'd have access to all of our content." And people said, "What do you mean, your content? You mean last year's ski magazine articles? There's no value there."

So the guy turned to me and said, "My perception is we're trying to get into a business in which we have no experience, in which we have no assets. I'd just like to confirm that that's the case." I said, "Yeah, I think that's very accurate."

There's nothing wrong, you could do it, and you'd probably get some marketing synergy if you do—presumably you could give yourself cheaper rates in your own magazine if you want. But if you think that having published one of these magazines gives you an automatic in as a content provider to the world of multimedia, you've obviously already made an important first discovery, which is, "Wrong!" It doesn't say anything about that.

But I give him credit for having figured it out in very short order.

So from the standpoint of a software publisher, what do these data highways do in terms of opening up opportunities for things you can't do now?

Well, I think that the main thing they do, at least potentially, is that they add the potential of a human element. The ability to do a lot of these kinds of things not in isolation but as part of a community.

I don't know if it's out, but [AOL president] Steve Case showed me a Kid Pix-like program that they were doing in which multiple kids could work at the same time on the same page. And there's this Neverwinter Nights fantasy roleplaying game that is apparently a huge success on America Online. I think Steve said it was the single most-used area in the whole thing.

An awful lot of this stuff, especially early learning stuff, is used by kids whenever possible in groups. They like to do it in groups of five or six, not just in schools but at home too. I can see those becoming potentially very cool groups. Especially once you get past the keyboard, which is a very big problem for kids, and Apple has helped by starting to build microphones into every machine.

Once you essentially have that superhighway running into the machine, where you can play the game also as a party line, where you can have the players playing with one another, not necessarily competitively but sometimes competitively, and talking simultaneously, you've created an incredibly robust and rich environment in a way that is not in isolation.

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Yeah. That's not pen pals, that's real. ■

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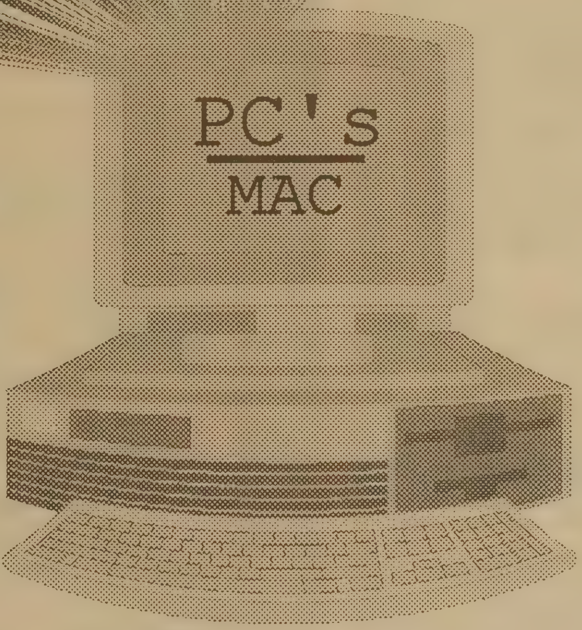

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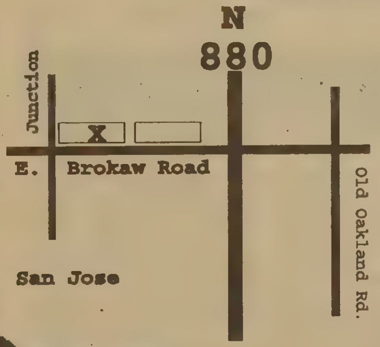

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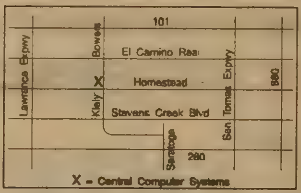

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IDE w. 4 FD/ 2.88MB/ w. drivers tape , 1.0 Mbps FD speed	39
IDE w. 2HD/ 4FD/ 2S 1P/ w. drivers tape , 5IRQ for com ports, 1.0 Mbps FD speed	45
IDE w. 4FD/ 3S 2P 1G (2S16550 chips)	79
For SCSI HD, w. CD-ROM drivers	59
VL2000 IDE w. AT I/O VLB	49
VL2018 IDE 2HD/4FD/2S/1P/16550/2.88	69

4. CPU

AMD386 DX-40	59
INTEL	
386 DX-25 / DX-33	69
486 DX-33 / DX-50	289/429
486 DX2-50 / DX2-66	339/479
MATH CO PROCESSOR	
CYRIX	
83D87 - 33 / 40	69/69
Cx486 DLC TI 33 / 40	79/99
INTEL	
387DX / 387SX	85/79
OverDrive Processor	
- 486 SX16 / SX20	325
- 486 SX25 / DX25	445
- 486 SX33 / DX33	545
Cooling Fan (heat sink)	19.50

5. DIGITIZERS

SummaSketch III 12x12, 4 or16 button	275
SummaSketch III 12x18, 4 or16 button	549
WACOM	
SD-510C 6 x 9, w. Pressure Stylus	459
SD-510C Tablet + Painter 2.0 (special)	(499)
SD-420E 12 x 12, w. Pressure Stylus	655
SD-421E 12 x 12 Electrostatic w. Stylus	745

6. DRIVES

Frame for 3.5" Hard Drive and Floppy Drive	6
Removable Hard Drive Case for 3.5" HD	39
HARD DRIVES	
CONNER	
CFA-170A 170MB 18ms IDE 3.5", 1" ht	185
CP-30254H 250MB 14ms IDE 32K 1" ht	225
CFN-340A 340MB IDE	259
CP-30544 544MB 12ms IDE 1" ht	499
FUJITSU (5 years warranty by manufacturer)	
2624FA 520MB 12ms SCSI-1&2	569
M2694ESA 1.0GB 10ms SCSI-2 3.5" 1/2"ht	899
M2654S 2.1GB 12ms SCSI-2 5.25" full	1499
MAXTOR	
MXT 7131A 130MB 15ms IDE 3.5"	175
MXT 7213A 213MB 15ms IDE 3.5"	195
LXT 7345A 345MB 14ms IDE 3.5"	275
MXT 7345S 345MB 15ms SCSI 1" ht	345
MXT 540A 540MB 8.5ms IDE 1" ht	629
MXT 540SL 540MB 8.5ms SCSI-2 1"ht	629
MXT 1240S 1.2GB 8.5ms SCSI-2 3.5"	1195
Optical Drives : Rewritable 1 GB 35ms SCSI Ext Tahiti II / 1 GB Cartridge Glass	2595/199
QUANTUM	
EIS 170AT 170MB 17ms IDE	185
LPS-240AT 244MB 16ms IDE 256K cahce	229
LPS-240S 244MB 16ms SCSI 256K cache	245
LPS-525S 525MB 10ms SCSI 512K cache	555
PRO-700S 700MB 10ms SCSI-2 512K	745
PRO-1225S 1.2GB 9ms SCSI 1.2M cache	969
FLOPPY DRIVES	
MICRO SOLUTIONS (External FD)	
1.2 / 1.44 (use printer port)	175
TEAC (Floppy Drive)	
1.2MB 5.25" / 1.44MB 3.5" w. frame	48/42
2.8MB 3.5" w. frame	85
Dual Floppy 1.2MB & 1.44MB	115

7. I/O CARDS

BOCABoard w. cable 4 / 8 / 16 port	99/149/299
KOUWELL	
2S 1P 1G w. NS16550 chipset (XT, AT)	49
4 Serial ports card	69
AT I/O (2S 1P) / AT I/O (2S 1P 1G)	27/27
AT I/O (2S 2P) / AT I/O w. IDE (2S 1P 1G)	33/34
Printer card (2P) / Serial card (XT, AT)	15/15
QUICKPATH	
13 port I/O w. 4-16550UARTs + Extd. IRQs (2 IDE, 4F, 4S, 2P, 1G)	125
4-serial, 16550UARTs, 8addr, 10 IRQ (3,4,5,7,9,10,11,12,14,15)	99
STB 4-COM	
4 serial, 16 bit, w.16554, support COM 1-8, IRQ 2,3,4,5,10,11,12,15	109
SIIG	
2S 1P w. 16550 chipset	49
WONDER SYSTEMS (USA made)	
4S 3P (16 bit, 8IRQ, 16550 FIFO)	135

8. KEYBOARDS

ANCER (Black)	
101 key	42
FOCUS	
FK2001 101 click	42
FK9000 129 keys Programmable	65
NORTHGATE OMNI	
101S / 101NI / 102	55/69/69
Ultra T or F	95
SIIG (click)	
Suntouch Jr. 84-key Mini	45
Suntouch 101	49
OTHERS	
BTC 84-key Mini	37
KeyCat II 101 w. trackball mouse	69
Keytronic 101	37
New Maxi / Maxi 101 / Maxi Key 124	29/35/69
Mitsumi 101	30
PT505C 101	25

9. MEMORY CARDS

ACCULOGIC	
RAMpAT! up to 16MB(SIMM),16 bit, AT	99
SIMM-ply Ram 8/16 bit, 8MB max, XT, AT	99
SIMM-ply Ram 16 bit, 8MB max, PS/2-50,60	119
INTEL	
Above Board w. 512K (special)	(99)

10. MEMORY CHIPS

DRAM	
1 MB x 1 - 80 ns	5.80
64K - 100 ns / 256K - 80ns	1.39
64K x 4 - 80ns / 256K x 4 - 80ns	1.65/4.80
SIMM	
16 MB x 9 - 70 ns	call
4 MB x 9 - 60 / 70 ns	call
1 MB x 9 - 60 / 70 / 80ns (3 chips)	call
256K x 9 - 70 ns	call
1 MB x 36 - 60 / 70 ns	call
4 MB x 36 - 70 ns	call
SIMM Mac : 4 MB x 8 - 70	call
SIPP	
1 MB x 9 - 70 ns (3 chips)	call
COMPUTER MEMORY (3rd Party) :	
IBM	
- PS/2 50Z/ 55SX/ 65SX/ 70	
-- 2MB / 4MB	95/159
- PS/2 80 - 111/ 311/ 121/ 321 -- 4MB	225
- PS/2 80 - A21/ A31/ A6 -- 4MB	279
COMPAQ	
- Deskpro 386N/ 386SX20	
-- 2MB / 4MB / 8MB	109/159/319
- Deskpro 386 - 20e/ 20/ 25e	
-- 1MB / 4MB	95/185
- Deskpro 486M -- 2MB /4MB /8MB	109/159/319
- LTE 286 -- 2MB / 4MB card	129/195
- LTE 386S-20	
-- 1MB / 4MB card	89/209
- SLT 286 -- 1MB / 4MB	99/259
- ProLinea 386 - 25ZS/ 25S	
-- 2MB / 8MB	105/375
- ProLinea 486 - 33/ 50/ 25S	
-- 2MB / 4MB / 16MB	95/199/699
KINGSTON MEMORY for	
Apple, AST, AT&T, Compaq, IBM, NEC,Sun	call
NOTEBOOK / LAPTOP (3rd Party)	
AST EXEC 4MB	155
COMPAQ	
- Contura -- 2MB / 4MB / 8MB	105/165/295
- LTE-Lite 20/ 25/ 25C -- 4MB / 8MB	215/349
IBM L40SX/ N33SX	
-- 4MB / 8MB	169/319
MAC PowerBook 140/ 170	
-- 2MB / 4MB	135/179
NEC UltraLite III SL25C / SX20	
-- 4MB / 8MB	239/399
Packard Bell 386SX -- 2MB / 4MB	155/259
Panasonic 170/ 270/ 370 -- 1MB	79
TOSHIBA	
- T1600 2MB	139
- T2200SX 4MB / 8MB	179/299
- T3100SX 2MB / 4MB	129/187
- T3200 3MB	209
- T3200SX 2MB / 4MB	129/199
- T5100 -- 2MB	139
- T5200/ T8500 2MB / 8MB	129/369
LASER PRINTER MEMORY UPGRADE	
Jet Ram (3rd Party):	
EPSON EPL 6000	
-- 2MB/ 4MB	114/175
HP	
- Deskjet 500/500C -- 256K	69
- Laser Jet II/ IID	
-- 1MB / 2MB / 4MB	99/145/235

SEE MORE ON THE NEXT PAGE

- Laser Jet III/ IIIP/ IIID	
-- 2MB / 3MB / 4MB	125/169/215
- Laser Jet 4 / 4M	
-- 4MB / 8MB / 16MB	199/389/699
PANASONIC	
- KX-P4410/ 4430	
-- 1MB / 2MB / 4MB	95/139/229
- KX-P4420/ 4450i	
-- 1MB/ 2MB/ 4MB	99/145/235
- KX-P4450 --1MB	139
- KX-P4455 --2MB	169
QMS	
- P-S 410 -- 1MB / 2MB / 4MB	99/145/235
- P-S 815/ 825 -- 2MB / 4MB	159/249
TEXAS INSTRUMENTS	
- Micro Writer --1MB	69
- MicroLaser Turbo XL -- 1MB	69
PACIFIC DATA:	
Pacific 4 for HP IIP+/ IIIP/ III/ IIID	
-- 1MB / 2MB / 4MB	89/135/225
1-2-4 Plus for HP II/ IID	
-- 1MB / 2MB / 4MB	115/159/249
Pacific 4 SIMM for HP 4/ IIISI/ XL300	
-- 4MB / 8MB	199/389
ProTracer -- 5MB / 8MB	375/525

11. MODEMS & FAX

ASAP TF-333 Phone & Fax Auto Switching	89
National Semi TyIN 2000 Answer/Fax	145
Micc Global Pocket Fax, Tripple 96	139
Adtech Micro Systems (DOS & WIN)	
Data Fax 9624Vi, MNP5	99
Hi - Per 96/144, MNP5	199
Pocket 96/24 Fax	115
Pocket 144/144 Fax	269
E-Tech	
Ufomate Pocket Fax modem (w. Win/DOS s/w)	
- P9696MX	185
- P1496MX	225
- P1414MX (Distinguish ring & Called ID)	259
FRECOM (special)	
Fax 96 w. 1 Linèr & Far Fetch Fax	99
Fax 96 & modem for DOS (special)	75
GVC	
14.4 Fax Modem Int / Ext	155/175
HAYES	
Accura 2400 Int / Ext	49/75
Accura 96 + Fax Int / Ext	199/229
Accura 14.4 + Fax Int / Ext	215/245
Optima 14.4 PCMCIA Fax (special)	(345)395
Pocket edition 2400 w. Smartcom EZ	129
Optima 144 Ext + Fax 144	389
SmartCom for Windows	47
V-series SmartModem 9600 v.42, MNP5 Ext	499
INTEL	
Faxability Plus/OCR for WIN trade-up	99
New Fax Modem 24/96 Int	55
New Fax Modem 24V/96 v.42bis Int / Ext	119/129
New Fax Modem 96 Int / Ext	155/165
New Fax Modem 14.4 Int / Ext	169/189
PCMCIA 14.4 Fax Modem	325
SatisFaxtion modem (w. FAXability s/w)	
- 100 Int send96 rec.48, 2400 modem	99
- 200 Int 96/24 v.42, MNP5	245
- 350 Int 14.4 Fax / 96 modem v.42bis	265
- 400 Int 144/144 v.42, v.32bis, MNP5	295
- 400e Ext 96/14.4, 4K data buffer	335
MEGAHERTZ	
PCMCIA 14.4 Fax modem / w. X-Jack.	345/355
PCMCIA 96/24 Fax modem w. X-Jack	225
P2144 Pocket 14.4/14.4	325
MICROCOM	
Microporte 4232bis Fax modem	465
QX 4232bis / QX 4232bis + modem	455/575
PRACTICAL PERIPHERALS	
PM14.4FX14.4 Int	219
Pocket 14.4 Fax Modem	369
Mini Tower 14.4FX14.4 Ext	235
PM2400 Mini pocket modem	119
FaxMe (turn HP Laser to Fax receiving)	175
SHIVA	
Net Modem/E Ethernet BNC/TP	1475
SIIG	
TeleCommunicator 10-in-1 Fax Modem	229
US ROBOTICS	
Courier 16.8 Int / w. Fax	459/499
Courier 16.8 Ext / w. Fax	495/545
Courier Terbo Fax 19.2 MB w. ASL	(425)525
Sportster 96/96 Fax Ext	149
Sportster 14.4/14.4 FAX MNP5 Int/ Ext	159/179
Sportster 14.4/14.4 Fax for Mac Ext	199
Shared Access Modem Sharing Kit	675
ZOLTRIX	
2400 baud modem w. MNP5 Int	39
96/24 send & rec. fax/modem w. MNP5 Int.	69
96/24 fax/modem v.42, MNP5 Int	85
ZOOM	
AFC Int / AFX Ext	59/79
9624 w. WinFax Lite Int / Ext	85/89
96/96 w. WinFax Lite Int / Ext	189/199
144/144 w. WinFax Lite Int / Ext	205/219
ZY-XEL	
U1496B 16.8 voice 14.4 Fax WINs/w Int	315
U1496B+ upgradable to 19.2Kbps Int	425
U1496E 16.8 voice 14.4 Fax WIN, LED Ext	319
U1496E+ upgradable to 19.2Kbps Ext	429

12. MONITORS

Monitor Saver	45
9" VGA Mono paper white 640 x 480	135
EMC	
EM 1412 14" Mono amber, 90-260v	95
EM 1417 14" 1024 x 768 VGA Mono paper white	119
EM 1428 14" 1024x768 .28, 90-260v	269
EM 1430K 14" 1024 x 768 .28, NI, 90-260v	289
EM 1439G 14" 1024 x 768 .39	219
HITACHI	
CM2095 20" 1280 x 1024, .31 w/0 cable	1325
CM2187 21" 1600 x 1280, .31 w/o cable	2045
Accuvue PS20 20" 1600 x 1280, .28	1695
Accuvue PS21AM 21" 1600 x 1280, .28	2395
MAG (Auto Switch Power Supply)	
MX15F MPRII 15" Flat 1280x1024 .28, NI	495
MX17F MPRII 17" Flat 1280x1024 .26, NI	925
Mac Adapter	25
MITSUBISHI	
HL6955SETK 20" 1280x1024 .31, NI	1745
Diamond Pro(TFS 6705) 17" 1280x1024 .26 NI,Trinitron, MacII, 100-240v	1045
BNC Cable	39
NANAO (100-240v)	
F340iW 15" Full Flat screen,1024x768 .28	545
F550iW 17" 1280 x 1024 .28, NI, Mac	1165
F560iW 17" 1280 x 1024 .26, NI	1399
F550i 17" 1280 x 1024 .28 NI, Mac	975
T560i 17" 1280x1024 .25, NI, MacII	1675
T660i 20" 1280x1024 .31, NI, Trin. , MacII	2395
F750i 21" 1280x1024 .31, NI, MacII	1995
MacII cable adapter	69
NEC (120v)	
3FGe 15" 1024x768 .28, Mac	589
3V 15" 1024x768 (new)	549
4FGe 15" Flat 1024x768 .28, NI, Mac	689
5FG 17" 1280 x 1024 NI	1345
5FGe 17" 1024x768 .28 NI (no Accu color)	1075
5FGP 17" 1280x1024 (new)	1455
6FG 21" Flat 1280x1024 .28, Mac	2395
NEC Monitor Lens (Anti-reflection, Anti-static)	
- for 4FG / 5FG / 6FG (special)	(65)/(105)/185
FG / MacII cable adapter kit	19.50
PANASONIC (90-140v)	
C1381i 14" SVGA 1024x768 .28, Int, MacII	325
C1395 14" 1024x768 .28, NI, MacII	435
C1991 20" 1024x768 .31, NI, MacII	1395
SAMSUNG	
CSK5577L 15" 1024 x 768 .28 NI	455
CSA7571 17" 1024x768 .31	695
CSF7487 17" 1280x1024 .26, NI, 90/264v	899
SEIKO (90-132v)	
CM2050 20" 1024x768 .31, NI, Mac	1395
SIIG	
9" Mono paper white	115
Standard Technologies	
400-M VGA Paper white	119
SONY	
1430S 14" 1024x768 .25, NI, 120v	575
17SEI 17" 1600 x 1280 .25	1295
1730 17" 1024x768 .25, NI	995
2038 20" 1280x1024 .30, NI	2195
VIEWSONIC	
4e 14" 1024x768 .28, Int,110/220v	279
5+ 14" 1024x768 .25, NI, MacII	475
6e 14" 1024x768 .28, NI.	299
15 15" 1280x1024 .28, NI, Mac II	475
17 17" 1280x1024 .28, NI, Mac II	1035
20 20" 1600x1280 .28, NI, Mac II	1695
21 21" 1600 x 1280 .26 NI, Mac II	1925
Mac cable adapter	35

13. MOTHERBOARDS

386-40 w. 128K cache (no cpu)	129
486-33 128K ISA (no cpu)	135
486-DX2-66 256K VLB w. Zip socket (no cpu)	149
AIR (w/o cpu)	
486-33 / DX2-66 256K, 3VLB slots	225
486-33 / DX2-66 256K EISA, 3 VLB slots	425
AMI	
Super Voyager 486-33 256K VLB, 8 slots	795
Super Voyager 486-DX2-66 VLB, 8 slots	995
Super Voyager II 486-33 256K VLB, 7 slots	675
Super Voyager II 486 DX2-66 VLB, 7 slots	895
Enterprise III 486-33 256K VLB EISA	875
Enterprise III 486 DX2-66 VLB EISA	1095
Enterprise IV 486-33 256K VLB EISA	925
Enterprise IV 486 DX2-66 256K VLB EISA	1145
IBM	
486SL-C2-33 / 66 16K internal cache ISA v.2 w. CPU & Math Processor	249
LYNX (made in USA, w/o cpu)	
486DX - 33 / 50 / DX2-66 256K VLB	149
MICRONICS	
386SX-20 Phoenix BIOS (32MB max)	175
386-33 64K cache Gemini (32MB max)	299
486-33 Local Bus w. 256K cache	635
486-DX2-50 VLB w. 64K / 256K	595/695
486-DX2-66 Local Bus w. 256K cache	845
JX30 486-DX2-66 VLB 256K w. Zip socket	920
486-33 256K EISA VLB	845
486-50 256K cache EISA E2	1195
486-DX2-66 256K EISA VLB	1045
MiniBoard 486-33 256K cache ISA	625
MiniBoard 486-50 256K cache ISA	735
MiniBoard 486-DX2-66 256K ISA	845
16MB Memory Card	150
NICE (w/o cpu)	
486-33 / DX2-66 256K VLB	215
486-50 / DX2-66 256K Mini EISA VLB	265
486-50 / DX2-66 256K EISA VLB	425
QUICK-PATH	
486-50 w. 64K cache, 15ns ISA (no cpu)	195

14. MOUSE & JOYSTICK

AGILER	
AGM-600E Serial 400 dpi	23.50
ATB-610 Serial Trackball	24.50
Keen	12.50
ANCER (black)	
3-button	25
APPOINT (portable)	
MousePen Pro	49
Thumbelina	49
KENSINGTON	
Bus 4.0	119
Expert serial & trackball 4.0	99
LOGITECH (call for rebate info.)	
Cordless II (new)	85
Dexxa Serial / First Serial	27/37
Fotoman Plus Camera for PC & PS/2	539
Mouseman Bus / Serial	59/54
Scanman 256 / w. OmniPage OCR	169/189
Scanman color - 16.8 million colors	429
Trackman Portable / Trackman Combo	89/75
MICROSOFT	
Mouse 2.0 w. WIN 3.1	149
Ball Point (portable)	119
Bus 2.0 (oem) / w. Bus Card	53/75
Bus 2.0 w. Expansion Card	89
Serial 2.0 (oem)	49
Serial 2.0 w. PS/2 port (special)	(69)79
Serial 2.0 w. 9 to 25 pin adapter (special)	(65)79
MOUSE SYSTEMS	
New Point (trackball for laptop & PC)	54
Little Mouse PC (2 button optical) serial	29
Omni (2 button) MS compatible	25
PC Mouse (3-button optical)	59
PC Trackball II	55
Page Brush - color scanner (special)	(199)399
Serial Bus Card (9 IRQs)	24
The New Mouse 400CPI (3 button)	55
JOYSTICK :	
Gravis Game pad	26
Warrior 5, Quick shot	14.50
Adapter kit	16.50
THRUSTMASTER	
ACM Gamecard	29
Flight Control System	75
Fight Control System Pro	125
Flight Stand - Holder	19
Rudder Control	125
Weapons Control MK II (special)	(119)139

15. NETWORK

MAILMAN 2.0 (10-user for Novell NetWare).	(99)
3COM	
3C503 8 bit coax / TP ethernet	179/199
3C503-16 Etherlink II 16 bit coax / TP	169/179
3C507 16 bit Ethernet coax / TP	289/299
3C509 Etherlink III coax / 5 pack	135/575
3C509 Etherlink III TP / 5 pack	139/585
3C509 Combo / 5 pack	155/625
3C579 Etherlink III EISA coax / TP	245/249
3C529 Etherlink III for MCA / TP	245/249
3C621 Link Builder 10 BT (12 port)	699
3C16270 Link Builder TP (12 port Hub)	395
TokenLink III 16/4 ISA/ MCA/ EISA	465/495/645
3C551 Link Watch SNMP/NLM software	259
ADDTRON (Novell compatible)	
AE-200LC 8 or 16 bit BNC & TP	69
AE-200LT 16 bit TP only	62
ET-200STS NE2000 coax compatible	65
AE-200STA NE2000 3 in 1 Combo	75
Starter Kit for Novell Lite 1.1 / for Win.	245/265
Starter Kit for Lantastic AI DOS / WIN	275/315
Transceivers : ET10TB (TP<-->AUI)	49
Transceivers : ET10CB (BNC<-->AUI)	49
HUB : UTP8 (8TP + 1BNC)	215
HUB : UTP16 (16TP + 1BNC + 1AUI)	485
Pocket Adapter : BNC / TP	135/139
Boot PROM	15
Arcnet :	
- Arc120TP 8bit Combo	59
- Arc220TP 16bit Combo	69
- 8 port active Hub coax / TP	135/145
Token Ring - 16/4 ISA / MCA	379/399
Token Ring - Mau 1 / Mau 3	295/295
ALLIED TELESIS (CentreCOM)	
AT-1500T TP / AT-1700T	79
AT-1500BT / AT-1700BT (TP+BNC)	99
Transceiver MX10 / 210T	47
ARTISOFT (Lantastic)	
AE-2 Ethernet starter Kit v5.0	449
AE-2 Ethernet starter Kit v5.0 WIN	509
AE-2 Ethernet adapter	(oem 185)195
AE-3 Ethernet starter Bundle / for Win.	495/569
AE-3 Ethernet adapter / NR2000A	225
2Mbps starter kit DOS / WIN	355/415
2Mbps 1-user kit / for MCA	139/215
AE-2/T 16bit 10Base-T adapter	199
64K RAM upgrade for AE-2, AE-3 adapter	45
AI software v5.0 DOS / 6 pk / 12 pk	75/395/720
AI software v5.0 WIN / 6 pk / 12 pk	99/535/975
AI Starter Kit NR-SI 2000C DOS / WIN	339/379
Articom - LAN modem sharing s/w	279
Central Station Connectivity Processor 5.0	399
Ethernet s/w kit 5.0 w. cable DOS / WIN	79/139
Lantastic Z (2 stations) v5.0	89
Lantastic for Netware (Network O/S)/ v5.0	99/275
Lantastic for Mac s/w Kit	339
T - Runner 8 Port Hub / 12 Port Hub	320/520
Lantastic for TCP/IP single / 5-user	185/760
Lantastic Print Server Station Ware	69
Netware Print Server Station Ware	69
Network Eye - Remote Control Access	155
NR 2000C (BNC only) / Starter Kit Win.	172/469
NR 2000T (RJ 45 only) / 6 pk	175/999
NR-SI 2000C / 2000T (special)	(99)
NR-SI 2000A Combo (special)	(119)
Peer-Hub 10Base-T concentrator	270
Remote Boot ROM for AE-2, AE-3, NR2000.	45
Sounding Board adapter Kit	69
StationWare (Dial Up Connection)	69
ASANTE	
Network products	call
CASTELLE	
JetPress (Network Print Server) for HP II,IID,III,IIID, coax / TP	429
LANPress (Print Server) connects up to 4 printers	
- Ethernet Thick/Thin coax (1P 3S)	475
- Ethernet Thick/Thin coax (2P 2S)	625
- Ethernet 10BaseT (1P 3S) / (2S 2P)	475/635
CC:MAIL	
cc:Mail DOS platform v4.0	199
cc:Mail WIN platform v2.0	335
cc:Mail 10-user / 25-user pack	239/579
cc:Mail Gateway v3.21	859
cc:Mail FAX v1.2	1350
cc:Mail Remote	199
cc:Mail Router 4.0	875
COMPULAN	
Arcnet	
- 4-port Arcnet Passive Hub	19
- 8-port Coax Stackable Active Hub	149
Ethernet	
- 8 bit E100 coax / ET500TP	55
- 16 bit E200 coax / ET600TP	65
- Boot Prom (for E100/ E200/ E500/ E600)	19
D-LINK	
DE-205 TP : 4 Port Hub + 16 bit card	295
DE-220 TP 8 or 16 bit (special)	(99)
DE-600 Coax Pocket Adapter (special)	(199)
DE-650 PCMCIA Coax / TP	195/199
FARALLON	
PN381 PhoneNet w.Timbuktu for WIN	259
GATEWAY COMMUNICATION	
G/Ethernet 16 coax / 32 bit (special)	69/299
IBM	
PCMCIA for Token Ring 16/4	579
PCMCIA 10B2 / 10BT	295/295
INTEL	
EtherExpress Flash LAN Adapter combo	(135)
EtherExpress 16 coax / 5 pk	(115)/505
EtherExpress 16 TP / 5 pk.	(117)/509
EtherExpress 16 MCA / 16 MCA TP	175/185
EtherExpress 32 EISA	439
12 port Hub EtherExpress ISA / EISA	565/645
LAN Protect 1.5 (virus protection)	685
LAN Sight 3.0 Netware Utility / Monitor	299
LANSpool s/w 386 NLM v3.5A	425
Netport II Thin & Thick / 10BT	395/399
Netport Express XL	465
NetSatisfaxtion V.2 (s/w for NOVELL).	955
TokenExpress 16/4 ISA/ EISA/ MCA	435/655/475
KINGSTON	**call**
LANPRO	
ER5390 HUB : (8TP + 1BNC)	189
NOVELL (Eagle)	
EP2000 Coax / TP (new)	99/89
NE2000 plus coax ethernet / 5 pk	119/525
NE2000-TP plus TP ethernet / 5 pk	105/475
NE2000 Netware Lite starter kit / Win	355/375
NE2000 Plus Combo / 5 pk	125/550
NE3200 Eagle EISA w. TPA	545
NE3210 EISA 32bit COmbo	215
Microdyne NE2000 5 pk	499
NTR 2000 Token Ring	435
EPROM for NE2000	35
Print Server NPE400	350
Netware Lite 1.1 + DR DOS 6.0	65
Netware Lite w. Win Utilities	75
Netware 3.12	
- 5 / 10 / 25-user	585/1295/1895
- 50 / 100 / 250-user	2525/3525/6525
Netware 4.01	
- 5 / 10 / 25-user	825/1825/2625
- 50 / 100 / 250-user	3595/5495/9695
SMC (Western Digital)	
8003 Plus Elite 8 bit coax	115
8013 Plus Elite 16 coax / 6 pk	125/625
8013 Plus Elite 16 TP / 6 pk	127/629
8013 Elite 16 combo / 6 pk	149/775
8013 Plus/A for MCA / TP	195/199
8033 Elite 32 bit coax / TP	595/599
Elite Ultra 16 Ciax / TP	110/112
Netware Boot ROM for ethernet	34
8 Port Concentrator (8TP+1AUI)	349
12 Port Concentrator(12TP+2AUI+1BNC)	595
Token Ring 16/4 ISA / MCA	379

Token Elite Passive MAU 8 / MAU 16	445/599
WD-8003 EP 8 bit Plus Elite	49
WD-8003WT 8 bit EtherPlus TP (w. cable)	29
SYNOPTICS	call
XIRCOM	
PCMCIA CE-10B2 BNC / CE-10BT	285/289
PCMCIA CE-10BC Combo	325
PE3-10B2 coax pocket adapter	285
PE3-10BT TP pocket adapter	289
PE3-10BC Combo pocket adapter	325
CABLES & ACCESSORIES	
Twisted pair cable, TP 4-pair, PVC, Level 3	
- 1000' / 500' / 200'	89/55/35
10 BASE-T cable, 1000' Level 3 plenum	165
RG58 cable, 500' / 1000'	65/109
Belden 8259, RG58, 1000'	165

17. POWER SUPPLIES

AMERICAN POWER CONVERSION (UPS)	
APC-400 Smart-UPS (286, 386 WS)	289
APC-600 Smart-UPS (386, 486 FS)	359
APC-900 Smart-UPS (386, 486, FS & WS)	569
APC-1250 Smart-UPS (multiple FS & WS)	725
APC-400 Back-UPS 286, ps/2, 386	179
APC-450 Back-UPS 286, ps/2, 386	215
APC-600 Back-UPS 286, 386 FS	285
APC-900 Back-UPS	395
APC PowerChute Plus :	
- for Novell	69
- for OS/2, Lan Server, 3 Com	75
- for UNIX / XENIX	99
Power Doctor (DOS) I/F Kit for Smart-UPS	79
GENERAL	
250W for Baby AT/ Baby or Mid Tower	45
250W for AT / for Full Tower	47/49
300W for Full Tower	69
550W for UPS	279
1200W for UPS	659
PC POWER COOLING	
Standard 220 for desktop / full tower	85
Silencer 270	
- for slim (baby or mid tower)	149
- for AT desktop / full tower	165/165
Turbo-Cool 300	
- for slim (baby or mid tower)	149
- for desktop / full tower	175/175
Turbo-Cool 450 for desktop / full tower	325
TRIPP LITE	
BC 500 Lan (UPS, 350W)	215
BC 900 Lan (UPS, 650W)	365
Iso - Bar	call
Omni 450 Lan (UPS 325W + Line Regulation)	275
Omni 600 Lan (UPS 425W + Line Regulation)	339
Omni 900 Lan (UPS 650W + Line Regulation)	499
UPS Monitoring Board for NetWare	59

18. PRINTERS

BROTHER	
HJ-400 Desktop Ink Jet for PC or Mac	295
HL-6T Laser 6ppm (2 yr. warranty)	575
CANON	
BJ-200 InkJet	319
BJ-300 desktop	349
CITIZEN	
GSX 145 (24 pin, 132 column)	355
- Color Option for GSX 145 / for GSX 130	65/45
GSX 230 Fonts & quiet (rebate $40)	229
GSX 240 Scalable Fonts & quiet (rebate $40)	285
PN48 notebook, 1ppm, 2lb, battery, case	299
HP (HEWLETT PACKARD LaserJet w. toner)	
Desk Jet 500 / 500C / 550C	295/395/585
Desk Jet 1200C / Postcript	1375/1975
Jet Direct 10BT	429
Laser Jet 4 / 4M / 4L / 4ML	1349/1935/669/1025
Laser Jet 4P w. 2MB / 4MP (new)	975/1375
Laser Jet 4Si / 4SiMX	2995/4295
Paint Jet / Paint Jet XL300	695/2295
LASER MASTER	
Utility XL1200 / XLT / XLO	4795/6495/7995
Win Printer 800 (Postscript)	1075
Win Printer XL600 11x17, 600x660PPI	2395
WinJet 1200 Postscript for HP 4 (special)	(695)
MICROTEK	
TrueLaser MTP-306 6ppm, 2MB, 35 fonts	1195
PACIFIC DATA PRODUCTS	
ProTracer Inkjet, A to C size output, 360dpi, I960RISC processor, 512K, 45dBA	1075
- Postscript emulation card	375
- HP-GL emulation Card	315
- Sheet Feeder I / II	135/115
- Ink Cartridges	19.50
Pro Tracer HP GL Bundle w. 5MB	1695
PANASONIC	
1124i / 1624	259/379
- Auto Sheet Feeder for 1124 KX-P36	120
2023 24pin, quiet printer	199
2123 24 pin, 43.5dBA, color capability	239
2124 24 pin, 43.5dBA, color capability	319
2624 24 pin, quiet printer, 46.5 dBA	399
2180 9 pin, 45 dBA, color capability	169
1150 9 pin, 55 dBA,	139
Color upgrade Kit KX-PCK11	55
Single bin cut sheet feeder KX-PT10	95
32K Buffer dot matrix printers KX-P43	65
Serial interface card PS-13	75
4410 Laser, 512K, 5ppm	559
- Corona KX-PCR3	49
- Developer KX-PDP4 / KX-PDP5	110/125
- Drum KX-PDM4 / KX-PDM5	99/109
- Extra cassette KX-PKC2	45
- Fuser unit KX-PFS5	105
- Optional second cassette KX-P495	135
- Toner KX-P453	42
- Fonts Card KX-P47x (for Lasers)	95
4430 Laser, 1 MB, 5ppm	675
- Accessories same as 4410	
4420 Accessories	
- Developer KX-PDP2	95
- Drum KX-PDM2	99
- Envelope Tray KX-P431	59
- Legal Tray KX-P425	45
- Ozone Filter KX-PFT2	29
- Toner KX-P451	42
4450i Laser 11ppm	975
4450 Accessories same as 4450i	
- Developer KX-PDP1	95
- Drum KX-PDM1	145
- Envelope Tray KX-P430	59
- Legal Tray KX-P420	45
- Ozone Filter KX-PFT1	32
- Toner KX-P450	42
4455 Postscript, 11ppm	1695
- others same as 4450i	
QMS (Adobe Postscript)	
QMS-PS 410 4ppm, 2MB, 45 Fonts	1095
- Envelope / Legal / Letter Tray	69/69/69
- Lower Cassette w. Letter Tray	149
- Toner	95
OKIDATA	
Printers and accessories	call
SEIKO	
Smart Label Printer Pro	245
Box of Label (2 rolls per box)	10.95
TEXAS INSTRUMENTS	
Micro Writer PS17 / PS35 5ppm	935/1195
XLPS 17 16ppm	1895
- Apple Talk Kit	99

Laser Printer Accessories:

COMPUTER PERIPHERAL	
Jet Page for HP II (special)	(125)
HP	
Optinal 500 sheet Legal Letter A4 (Jet 4)	279
Envelope Power Feeder 75 sheet (Jet 4)	279
Legal, Letter or A4 250 sheet Tray (Jet 4)	99
Legal, Letter or A4 500 sheet Tray (Jet 4)	109
Lower Cassette w. letter tray for IIP, IIIP	149
Toner for Jet II, III	79
Toner for Jet IIP, IIP+, IIIP	66
Toner for HP4 / 4L	109/69
Postcript for Jet 4	359
IQ ENGINEERING	
True Type Master Library	29
Super Cartridge 2 & 2LS for HPII & III	(269)
Super Cart. 3 Pro+ for HP III, IIID, IIIP, IIISi	199
Desk Jet 500 / Desk Jet Plus Professional	99
PACIFIC DATA	
25 in One! (for Deskjet 500)	99
25 in One! III	
- for HP II, IID, IIP, IIP+, III, Microtek	245
Complete Font Library for HP III, IIID, IIIP	255
Font Bank for all HP Laserjet (New) stores soft fonts, 0.75MB / 1.5MB	205/269
Headlines Cartridge for HP II, IID, IIP	185
Paicfic Connect XI	
- For HP II, IID, III, IIID :	
-- 5 port 256K / 1MB (4S, 1P)	319/389
-- 10 port 256K / 1MB (10S)	449/519
- For HP 4, IIISI, Paint Jet XL300 :	
-- 7 port 1MB / 4MB (6S, 1P)	449/649
-- 10 port 1MB / 4MB (10S)	519/719
Pacific Page & 2MB (Postscript for HP II)	389
Pacific Page II / XL w. 4MB (Postcript for HP II)	719
Pacific Page 4 (Postcript for HP 4)	279
Pacific Page P.E.(HP IID,IIP,IIP+,III,IIID,IIIP)	279
Pacific Page P.E. & 2MB	405
Pacific Talk	179
Pacific Page PE XL (HP IIP, IIP+, III, IIID, IIIP)	
Pacific DirectNet (for Novell)	369
Pacific DirectNet (for Novell & UNIX)	499
Postscript w. 4MB & accelerator board	719
Plotter in a Cartridge (HP II)	225
Plotter in a Cartridge P.E.	
- for HP IID, IIP, IIP+, III, IIID, IIIP	225
PELICAN All type ribbons	visit us

19. SCANNER

Hand scanners	see **Logitech** in sec.14
E-TECH	
4256G 256 gray scale (w.OCR)	99(115)
4200C 256/4096 color (w.OCR)	269(289)
HP	
ScanJet IIP w. Kit	749
ScanJet IICX Color w. Kit	995
MICROTEK	
Scan Maker II w. PhotoShop LE	899
Scan Maker IIXE w. PhotoShop	1150
TAMARACK	
ArtiScan Flatbed 24bit color 256 gray levels	
- w. Publisher L.E. 600/800/1200 dpi	845/1045/1695
- w. Pub.L.E. &OCR 600/800/1200 dpi	895/1095/1745
- w. Photostyler 600/800/1200 dpi.	995/1195/1845
- w. PhotoShop 2.5 600/800/1200	1045/1245/1895
Slide Scan Kit (transparency, slide, X-ray)	
- 600/ 800/ 1200 dpi	525/525/595
Z-NIX	
Zscan 400 dpi + iPhoto + OCR (special)	(99)
- Bundle w. Corel Draw 3.0	199
- Bundle w. PageMaker 5.0	559
Z-Nix Cordless Super Mouse	(59)

20. TAPE BACKUP

ARCHIVE	
Viper 2150S Int	345
COLORADO	
Backup for Windows	39
DJ-10 120MB QIC-40 w. cable / w. Win.	109/139
DJ-20 250MB QIC-80 w. cable / w. Win.	165/195
- AB-11 Ext tape port	39
- Cable (2 Floppies & tape back up)	7
- FC-10 Controller	85
- KE-09 Ext Kit w/o controller	75
- TC-15 controller w. data compression	179
- Unix/ Xenix driver for DJ-10, 20	99
PowerTape PT-25 2GB 300KB/s Int	965
PowerTape PTE-25 Ext	1095
PowerTape PT-50 4GB 300KB/s Int	1525
PowerTape PTE-50 Ext	1655
Trakker 250MB Ext (printer port)	339
Trakker 120MB Ext (printer port)	299
CONNER	
Tape Stor 250MB w. 3M Cartridge	145
EXABYTE	
Tape Drives	call
SUMMIT	
SE250 250MB w. Backup software & free Cartridge offer	159

21. VGA CARDS

INTEL Smart Video Recorder	525
Paradise Window Accel 31X 1MB	159
Standard 24 VLB 1MB	105
Video Plus (video image grabber)	239
V-Mate Pro (flicker free ext. video encoder)	199
WinVision (video capture)	165
(All cards 1024x768 except as stated)	
CGA / MGP card (Monographic w. Printer)	29
ET4000 Tseng Lab 1MB ISA / VLB	79/109
Oak087 Super VGA 512K	52
Oak087 Super VGA 1MB Accelerator	65
AMI	
FastView EISA VGA Graphics 1MB	175
FastView P9000 VLB 2MB	395
ATI	
VGA Stereo F/X 512K (PC Sound & VGA) w. speakers	159
Wonder XL 24 1MB, Hi-color, w. mouse	145
Graphics Ultra Plus 2 DRAM ISA / VLB	239/299
Graphics Ultra Plus 2 DRAM w. mouse	269
Graphics Ultra Pro 2MB	345
Graphics Ultra Pro 2MB VRAM VLB	395
Graphics Ultra Pro 2MB EISA	425
DIAMOND	
Stealth 1MB VRAM w. Sierra Hi-color	189
Stealth 24 1MB DRAM 16 million color	165
Stealth 24 1MB DRAM VLB	169
Stealth Pro VRAM 1MB / VLB	255/265
Stealth Pro VRAM 2MB / VLB	349/359
Viper VLB P9000 VRAM 2MB	395
MEDIA VISION	
ProGraphic 1280 (new)	699
METHEUS	
Premier 928 w. 4MB VRAM ISA	765
Premier 928VL4 w. 2MB VRAM VLB	599
- 1MB Memory upgrade VRAM	129
MYLEX	
GLE911 1MB, 1280x1024, EISA	399
GXE020B 4MB DRAM 1280x1024, 2MB VRAM, TMS34020, Tiga/EISA	1039
NUMBER NINE (TI34020)	
#9 GXe 1280 x 1024, 90Hz, S3-928 chip	
- Level 10 VRAM ISA 1MB	259
- Level 11 VRAM 2MB ISA / VLB	355/359
- Level 12 VRAM 3MB ISA / VLB	435/439
- Level 14 VRAM 4MB ISA	659
GXI TC-Level 29, 24 bit 1280x1024-265K color at 72Hz,4MB VRAM, 1MB DRAM	1395
ORCHID	
Celcius VLB 1MB	215
Fahrenheit VA/ VLB, w.voice annotation,24 bit	175
Fahrenheit 1280+ VLB 1MB 24bit	159
Fahrenheit 1280+ DRAM 1MB	155
SPIDER 32 VLB	
Windows Accelerator w. 1MB VLB	115

III SOFTWARE

1. CD SOFTWARE

GROUP A

Each	*$14.95*

Adventure in Heaven
American Business PhoneBook 92
Beauty and The Beast MPC
Business Master (Shareware)
Cook Heaven
Education Master (Shareware)
Gameware Collection
Giga Games (3000 files)
House of Games King Quest V
Jones in the Fast Lane Learning Heaven
Mixed-up Mother Goose
Multimedia Computer Tutor
Peter and the Wolf MPC
Pheonix Shareware
Resource Audio I (shareware)
Resource Graphics I (shareware)
Sleeping Beauty MPC
Space Quest IV - Roger Wilgo (oem)
Sound Library So Much Shareware II
Straight from Heaven Stellar 7
Tempra Access Photo CD (DOS, color)
The Adventure of Willy Beamish
Up All Night (shareware)
Windows Master Window Platinum

GROUP B

Each	*$19.95*

9000 Sounds
Atlas Pack (World + US) - DOS
Audubon's Birds Audubon's Mammal
Battle Chess DOS
CD Fun House (oem) CD Story Time
CD Game Pack II (10 games)
Chess Master 3000 MPC
Crossword Cracker
Dangerous Hot Stuff I (collection of graphics)
Desert Storm MPC
Discis : Kids Can Read (DOS, WIN, MAC)
- Cinderella
- Heather Hit her First Home Run
- Long Hot Day at the Ranch
- Moving Gives Me Stomach Ache
- Mud Paddle - Paper Bag Princess
- Tale of Benjamin Bunny - Tale of Peter Rabit
- The Scary Poems for Rotten Kids
- Thomas Swimsuit
Family Choice Family Education Collection
Great Cities I / II
Language/OS
Laser Printer Companion LOOM
Mayo Clinic Family Health Book
Media Music Shop
Multimedia Music Training
PC Karaoke 4.0 (w/o microphone)
PC Media PC SIG Library vol.12
Publish It 2.0 DOS Publisher's Power House
QuickToons - MAC / PC
Reference Library
Sci-Fi Fantastic Sherlock Holmes I
Secret Weapons of the Luftwaffe
Sports Best So Much Shareware III
The Animals MPC / DOS
The Family Doctor
Time Table of History - Science
Who Kill Sam Rupert
Wing Commander w. Ultima 6

GROUP C

Each	*$24.95*

Adventure of Pinocchio Animation Festival
Arthur's Teacher Trouble (oem)
Atlas Pack (world + US) - MPC
Battle Chess MPC Bible Library (oem)
CD CADD 3.7
CD Fun House (350 games) - DOS, WIN, MAC
Composer Quest MPC
Corel Artshow 3 (Book + CD) MPC
Dangerous Hot Stuff II (collection of graphics)
Dinosaur Adventure
Dinosaur - The Multimedia Encyclopedia
ECO-Quest : The Search for Cetus
Encyclopedia of ClipArt (Power Pack)
Fantazia Fonts & Sound
Hound of Baskervilles
Guiness Disc of Records 93 MPC
Jets and Props (Media clips)
Laura Bow 2 - The Dagger of Amonra
Mammals (National Geographic)
Mario is Missing + World Atlas
Mavis BeaconTeaches Typing MPC
MacMillan Dictionary for Children (K-12 grade)
Monkey Island Monster Media 93
National Parks Night Owl 9 (Shareware)
Playing w. Language (oem) Publisher's Paradise
Resource Multimedia
Space Adventure Space Shuttle
Talking Class Tales Talking Jungle Safari
The Best of 20th Century
US Atlas w. Auto Map US History
Where in the World is Carmen Sandiego

GROUP D

From	*$29.95*
A Line in the Sand	34.50
Adventures (1000 tours)	34.50
All American Sports	29.95
Beyond the Walls of Stars	29.95
Business Background MPC + MAC	29.95
Coales Art : Impressionism	34.50
Dictionary of Living World MPC	29.95
Electronic Home Library	29.95
Electronic Library of Art (Western Arts)	29.95
Encyclopedia (Grolier's DOS 5.01)	34.50
Essential Home & Business Collection	29.95
F-15 Strike Eagle II + F117A	29.95
Flesh Art (clip art)	29.95
Fractal Ecstasy (images)	29.95
Greatest Books Collection / for Win	34.50
Impressionism (coales art)	34.50
Languages of the World for Win	29.95

Macromedia ACTION! WIN	29.95
Master Piece Library	29.95
Microprose Gamepack of 4	29.95
Nautilus Mini Subscription	29.95
Night Owl v.10	29.95
Plant Doctor	29.95
Pixel Garden	29.95
Playing w. Lang. - Jap/Ger/Fren/Eng/Span	29.95
Prescription Drugs	29.95
Scrabble Crossword Game (deluxe)	34.50
Software Jukebox	34.50
Stories of Murder, Mystery, Magic & Terror	29.95
Timetable of Arts & Entertainment	29.95
Timetable of Business & Politics	29.95

SPECIAL GROUP

From	***$9.95***
CIA Fact Book & Shareware	9.95
CICA MS Windows	12.95
Chestnut:	9.95 each

- Bible & Religion - Clip Art Goliath
- Computer Ref. Lib.
- Complete Home & Office Legal Guide
- Death Star Arcade Battles
- Dictionary & Language - Encyc. of Sound
- Gardening - Our Solar System
- Shareware Overload - Technotools
- The Complete Book Shop - World Traveler

Colossal CookBook	12.95
Dr Games / Dr Music (research)	12.95
Dr Shareware / Dr Windows	12.95
Kodak Photo CD Access v1.0 for Win (oem)	12.95
Learning Adventure	12.95
MPC Wizard (test & tune-up for Win)	12.95
Rom Man : (w 3-D hologram)	9.95 each

- Brain Drain - Futura
- Let's Play - Mirror-Mirror
- Oldies but Goodies - Variety Store

Roto + Time Bandit + Airball	12.95
Selectware	9.95
Super Font	12.95
Super Games WIN	12.95

BUNDLE

5 PACK # 1 .... ***135***

Compton's Interactive Encyclopedia for WIN
CD Game Pack II or any Game in group A & B
Guinness disk of Record MPC
Time Table of History - Science
Wing Commander w. Ultima 6

5 PACK # 2 (DOS) ***95***

Atlas Pack (US & World)
Reference Library
The Animals
Secret Weapons of the Luftwaffe
Software Toolworks Encyclopedia 5.0

5 PACK # 3 .... ***99***

Compton' s Multimedia Encyclopedia for WIN
Mayo Clinic — Space Quest IV
Stellar 7 — Wizard MPC

6 PACK # 4 (Windows) ***95***

CD Deluxe Pack MPC ... $45
- (Chess Master 3000 + Mavis Teaches Typing + US Atlas 3.0 + World Atlas 3.2)

Compton's Family Choice
Grolier's New Multimedia Encyclopedia

6 PACK # 5 .... ***85***

Animals — Microsoft Bookshelf 93'
Selectware — Sleeping Beauty
Space Quest IV — Sound Library

OTHERS

7th Guest DOS (special)	(45)55
Amazing Universe PC & MAC	49
American Alive	95
Americab Journal 1896-1945	49
American in Space (2CD)	59
Anabel's Dream - Egypt	59
Arthur's Teacher Trouble w. box WIN	45
Battle Chess Multimedia - Enhanced	49
California Travel MPC	39
CD Source Book of American History	75
Compton's Family Encyclopedia	39
Compton's Interactive Encyc. WIN oem/reg.	69/245
- upgrade	99
Compton's Multimedia Encyc. WIN oem	59
Countries of the World	79
Day of the Tentacle - Maniac Mansion	49
Desktop Publisher's Dream Disk	45
Distant Sun for Win / w. Space Vision	59/79
Famous Faces / Famous Places MPC	45/45
Fitness Partner - MPC	45
Global Explorer (DeLORME) MPC	99
Goldilocks and the 3 Bears (Eng/Fren/Span)	35
Grammy Awards	35
Great Literature (1896 books) DOS & MAC	49
Great Poetry Classic	45
Great Wonders of the World DOS	39
Heart the Engine of Life (human body)	69
History of the World	59
Hong Kong / New York at its Best	25/25
Humans	35
Impact! for Win (by 3G Graphics)	69
Indiana Jones - The Fate of Atlantis	45
JAZZ of Multimedia History MPC	49
Just Grandma and Me WIN	39
King's Quest VI / Upgrade	49/35
Kodak Photo CD Access DOS / WIN	35
Learn to Speak Spanish / Eng. / French	65
Mad Dog McCree	45

MICROSOFT :

- Cinemania 94' MPC	55
- Dinosaur	55
- Encarta 94' MPC	*(95)
- Golf	48
- Multimedia Beethoven 9th Symphony	55
- Multimedia Bookshelf 93	(oem 49)/125
- Multimedia Mozart	55
- Multimedia Stravinsky	55
- Musical Instruments MPC	55
- Office 3.0	445
- Works MPC	39
Monarch Notes (over 2000 study guides)	49
Monster Disk II (2 shareware disk)	45
Multimedia Animals Encyclopedia MPC	39
Multimedia Encyc. (Grolier's WIN 1.5)	49/225
Nautilus BackPac for Win I / II	49/49
New PC-Karaoke w. Microphone	49
Oxford English Reference Library OS/2 & DOS	99
Picture Atlas of the World	99
Phone Disk USA (business)	59
Precision Mapping (2CD + phonedisk)	75
Pro Phone Bus / Mid 93	45/105
Putt : Joins the Parade / Going to the Moon	49/49
Return to the Moon	45
Shareware Explorer - 4 CD set	49
Shareware Extravaganza - 4 CD set	45
Sherlock Holmes II / III	49/55
Sing Along w. Christmas songs	19
Sing Along w. Elvis	19
Sing Along Party Pack (2CD + microphone)	49
Space Quest IV - Roger Wilgo w. box	45
Street Atlas (DeLORME) 2.0	99
Talking Schoolhouse	49
The Best of Photography (Nautilus)	47
Think and Talk Spanish (Fren/ Italian/ Ger)	115
Tortoise & the Hare	39
Virtual Reality	49
Voyage to the Planets 1 / 2 / 3	49
Voyage to the Stars 1/ 2 / 3 / 4	49
Wing Commander II Deluxe	59
World Vista MPC	39

2. PC SOFTWARE

*(price)	special

ADOBE

Illustrator 4.0 WIN w. Streamline	425
PhotoShop 2.5 WIN / w. Illustrator 4.0	515
PhotoShop 2.5 + Illustrator 4.0	615
Premier 1.0 WIN	185
Streamline for WIN	125
Plus Pack for Mac	99
Type Align	59
Type Cartridge 1/ Type Cartridge 2	79
Type Manager for WIN 2.5	67
Type Set 1/2/3 for WIN	69/65/125
Type Set: Overheads & Slides	75
Type Set: Spreadsheets & Graphs	75

AUTODESK

AutoCAD Lite	449
AutoDesk 3D Concepts	145
AutoSketch for WIN / 2.0	*(155)/199
Generic CADD v6.1	*(255)285
Generic 3D	195
Graphic Impact / Instant Artist	65/39
Home Series (home / landscape / kitchen+bath)	39
Multimedia Explorer - CD version	115

BORLAND

Brief 3.1 for DOS & OS/2	95
C++ for OS/2	*(149)349
C++ Professional 3.1 for WIN	319
C++ 3.1 for WIN & Application Frameworks	485
- Education Special	199
dBase IV v2.0 for PC / upgrade	*(455)/99
ObjectVision 2.1 / Pro 2.1	102/ *(245)
Paradox 4.0 DOS	*(425)499
Paradox 4.5 for Win	145
Quattro Pro 5.0 for WIN / DOS (new)	49
Quattro Pro Workgroups Edition	189
- upgrade	99
Screenery (Windows wallpaper, screen saver)	25
Turbo C++ 3.0 for DOS / 3.1 for WIN	75/105
Turbo C++ Visual Edition for WIN	*(79)
Turbo Pascal 7.0 / 1.5 for WIN	115/109

CENTRAL POINT

Anti-Virus 1.2 WINDOS / 2.0 DOS	39/*(59)
Backup 8.0 DOS	*(59)89
PC Tools 8.0 / 8.0A / 1.0 for WIN	99/99/99

INTUIT

Quicken for DOS 7.0 / WIN 3.0 / MAC 4.0	45
QuickBook 2.0 for WIN	95
QuickPay (payroll) / for WIN	39
QuickBook & QuickPay / for WIN	110/119

LOTUS

1-2-3 4.0 for WIN	*(299)325
- upgrade	99
1-2-3 Rel 2.4 DOS	325
1-2-3 Rel 3.1+ DOS / Rel 3.4 single	385/385
1-2-3 for DOS upgrade	99
Ami Pro for WIN 3.01	239
- upgrade / competitive upgrade	65/99
Approach 2.1 for WIN	*(99)239
Freelance Graphic 2.01 WIN	325
- upgrade for DOS/WIN	99
Improv - 12 data dimentions	*(99)295
Notes	call
Organizer 1.1	*(99)
Smart Suite 2.0	450

MICROGRAFX

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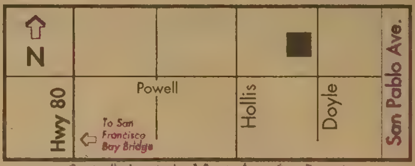

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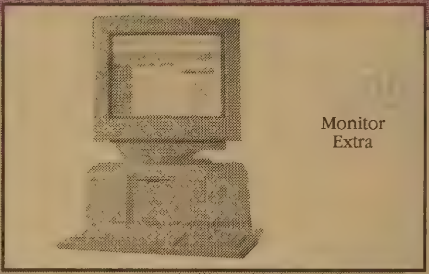
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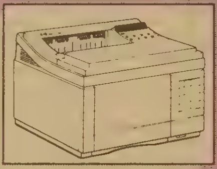

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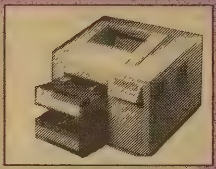

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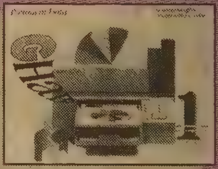

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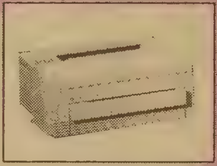

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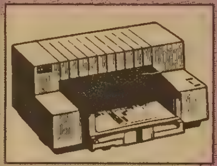

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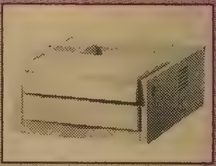

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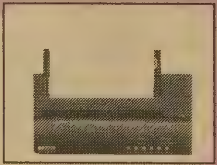

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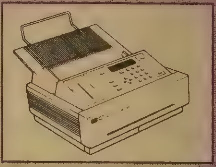

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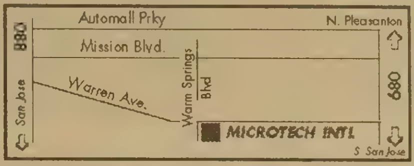

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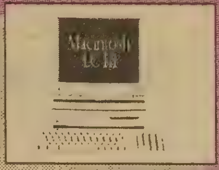

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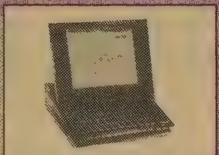

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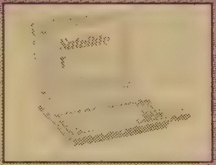

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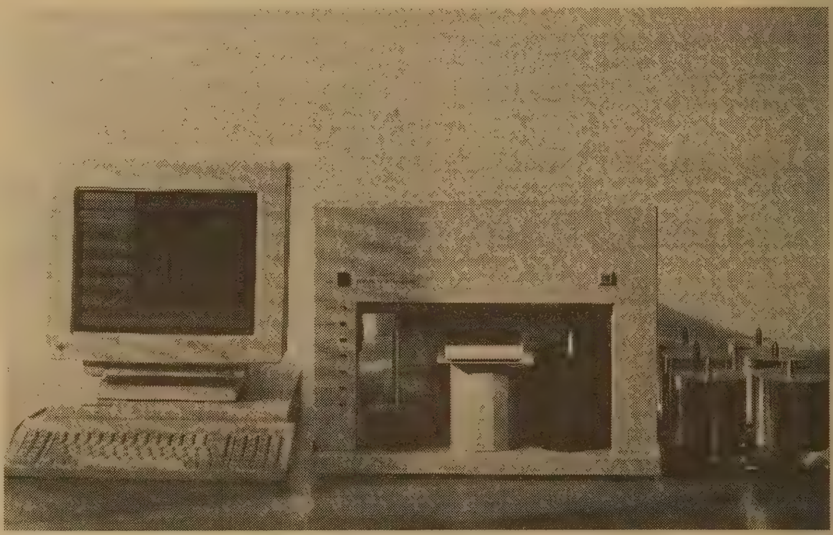

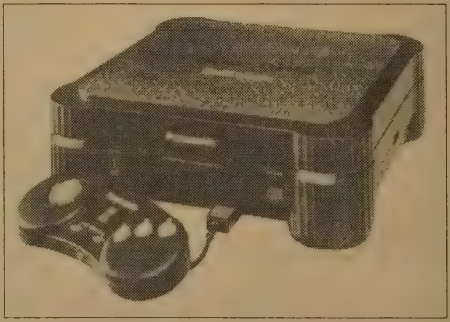

Above: The Kodak Writable CD Production Station; Right: Panasonic REAL 3DO Interactive Multiplayer

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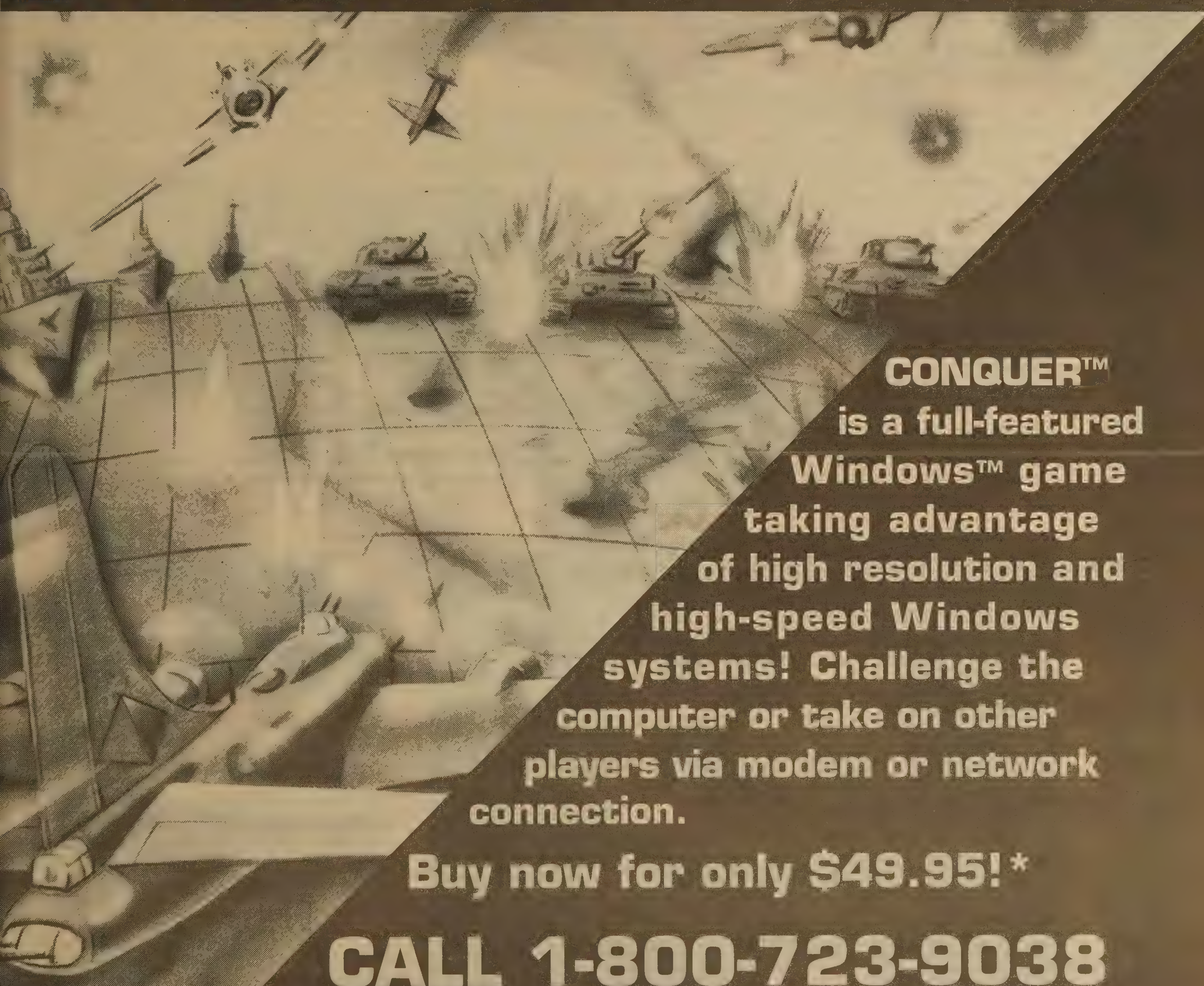

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LOGITECH SOUNDMAN GAMES

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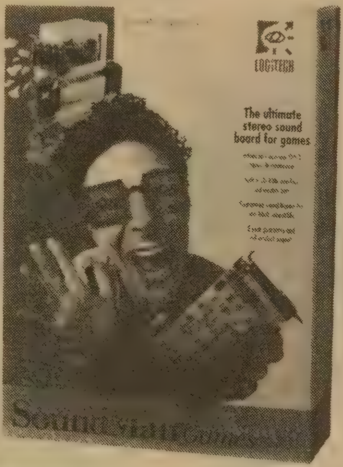

Clockwise from left: Logitech Soundman Games; StereoGraphics CrystalEyes PC System; Imp from ArcanaTech, Inc.; The Exclusive 486 PC from BOLData Systems

MPC
Multimedia PC

ORCHID GAMEWAVE 32

The GameWave 32 multimedia sound card is a DSP-based audio card for IBM PCs and compatibles. It allows cost-conscious users to experience 16-bit audio and advanced wavetable synthesis in all of their entertainment and multimedia software. The board's flexible architecture enables the user to switch between sound standards and to update to new sound standards without additional hardware. Computer game enthusiasts can enjoy "real" sounds and effects. The GameWave 32 also features dual CD-ROM interfaces for Orchard, Sony, and Mitsumi CD-ROM drives. Interface connections include stereo speakers output and a line output for connecting the GameWave to a home stereo. ($169) Orchid Technology, Inc., 45365 Northport Loop W., Fremont, CA 94538. (510)683-0300.

BOLDATA EXCLUSIVE SYSTEMS

The Exclusive line of 486, Windows-based personal computers features integrated image-capture and full-motion video capa-

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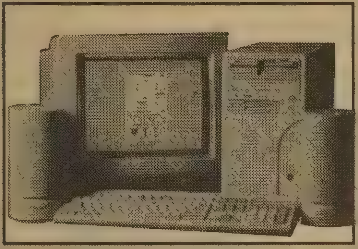
OCT. 26, 1993



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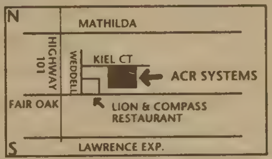

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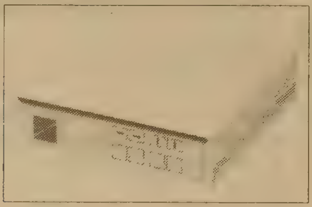

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TROPICAL RAINFOREST
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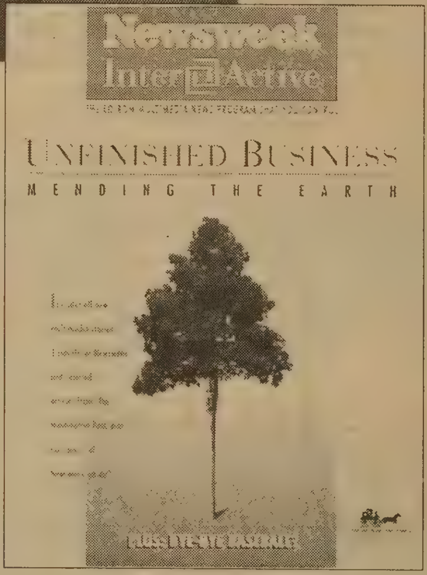
entertainment

Clockwise from left: Aris Multimedia Entertainment's Tropical Rainforest; XingIt!; Newsweek Interactive for DOS; Electric Science Fiction from ClariNet Communications; CV Link from Display Tech, Inc.



bilities. Designed for multimedia, there are eight expansion slots (two VESA local bus and six ISA slots), four drive bays (two 5.25" and two 3.5"), built-in amplifier with speakers, and front panel volume control as well as microphone and headphone jacks. The system comes configured with a Mitsumi CD-ROM drive and four CD-ROM titles. The drive is compatible with CD-Audio and Kodak's multisession Photo-CD. A 16-bit SoundBlaster-compatible sound card is installed in one of the eight motherboard slots. BOLData Systems, 840 Auburn Court, Fremont, CA 94538. (510)490-8296.

TRUEVISTA PRO EISA FRAME BUFFER

TrueVista EISA is a professional-quality frame buffer based on the company's new DVR architecture. It has one video input and two video outputs. Video producers can use the frame buffer to capture video stills or pass-through video to one or both of the video outputs. The video outputs also meet the producer's need for program preview and program output, or program output with matte channel. The frame buffer supports all major analog video standards. The TrueVista EISA includes software such as an image loading utility for use under Windows or MS-DOS, Autodesk ADI driver, and capture/control utilities. ($4195) Truevision, Inc., 7340 Shadeland Station, Indianapolis, IN 46256-3925. 1-800-344-TRUE.

CV LINK

CV Link is a computer-to-video link which allows personal computers with VGA monitors to transfer images to a television, VCR, or video projector. Recommended for multimedia presentations, CV Link eliminates flickering and fuzziness from text, graphics, CD-ROM, and software applications in video output. It requires no video card, supports a 640 x 480 format in NTSC composite, high-resolution S-Video, and displays up to 16-bit color on the Macintosh and 18-bit color on IBM. ($599) Display Tech, Inc., PO Box 6722, Concord, CA 94524. (510)676-9335.

XINGIT!

XingIt! is a real-time, 30-frame-per-second MPEG video encoder board for personal computers. For use by publishers and designers of video games, multimedia databases, sales presentations, and more, XingIt! combines Philips Semiconductors' video compression hardware with Xing's playback software. XingIt! makes incorporating video in multimedia computing applications easier. The product features real-time video capture, filtering, and MPEG compression. Also featured is MPEG video playback through Microsoft Video for Windows, synchronized with WAV and MPEG audio. ($795) Xing Technology, Inc., 1540 West Branch St., Arroyo Grande, CA 93420. (805)473-0145.

IMP

With the hand-held, remote control Imp, users can position a cursor and execute common mouse functions on a host computer from as far away as 15ft. Using infrared communication, a specially developed film that is sensitive to the touch, and four auxiliary buttons, battery-powered Imp can click, double-click, drag, and execute keyboard functions, all without the necessity of a flat surface or connecting cord. The product serves PC-based multimedia systems, dynamic presentation graphics software, desktop video conferencing, and laboratory automation systems. ($199) ArcanaTech, Inc., 120 S. Whitfield St., Pittsburgh, PA 15206. 1-800-364-IMPS(4677).

REELMAGIC

An MPEG playback card, ReelMagic allows you to watch full-length movies on an ordinary PC system. It plays back theatre-quality, full-motion video with audio CD-quality sound from a standard CD-ROM. It will also plays MPC-compatible multimedia

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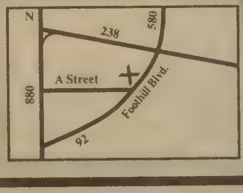

HOLIDAY
Gift Guide

applications and DOS Game-compatible software. ReelMagic displays full-screen, 32K color video at 30 frames per second and resolutions up to 1024 x 768—the playback speed of a home TV, but with a higher resolution. MPEG, which stands for Motion Picture Experts Group, is an advanced technique for compressing video and audio, which allows high-quality video and audio to be played directly from a single-speed CD-ROM. ReelMagic requires an IBM-compatible PC 386SX/16 or higher, a standard VGA/SVGA display card, and an MPCI compliant CD-ROM drive. ($400) Sigma Designs, Inc. 47900 Bayside Parkway, Fremont, CA 94538. (510)770-2640.

CD-ROM SOFTWARE

ELECTRIC SCIENCE FICTION

Electric Science Fiction: 1993 Hugo and Nebula Anthology offers a multimedia-enhanced compilation of the best science fiction of the year on CD-ROM. It contains all Hugo-nominated fiction and art, ranging from complete novels to short stories to a portfolio of artwork from nominated artists. The novel *A Fire Upon the Deep*, by Vernor Vinge, is a hypertext annotated rendition that contains the author's own story development notes. The anthology is also available online for the same price as the CD-ROM. The flat fee entitles a buyer to access the ClariNet network via FTP protocol on the Internet, or directly by modem, and browse and download as much of the anthology as the subscriber desires. ($29.92) ClariNet Communications Corp., 4880 Stevens Creek Blvd., Suite 206, San Jose, CA 95129-1034. (408)296-0366 or 1-800-USE-NETS.

CRITICAL PATH

Critical Path is an interactive action-adventure CD-ROM that combines motion picture, video games, and elements of computer-generated animation into a single interface. This CD details the adventure of Kat, a 24-year-old renegade helicopter pilot who must be guided to safety through a gritty, post-apocalyptic factory setting, where she is being pursued by a gang of thugs and an insane dictator with a thirst for high explosives. Players navigate through an animated landscape, all the while interacting with live-action, human actors. Media Vision Inc., 3185 Laurelview Court, Fremont, CA 94538. 1-800-348-7116.

PEAK PERFORMANCE

Aimed primarily at kids ages twelve to sixteen, Peak Performance is a somewhat campy, tongue-in-cheek, interactive adventure CD-ROM combining video, trivia, questions, and a race against the record books. Players "see" the US as they travel across the country in a race against an on-screen chronometer to break the world record for climbing the highest points in all forty-eight continental states—thirty days. This zany adventure includes such offbeat experiences as joining in a hollering contest, visiting the world's smallest police station, viewing Einstein's brain, seeing the world's biggest catsup bottle, and stopping by "Carhenge," the modern-day automotive equivalent of Stonehenge. Each adventure will be different, since players can select a new route and new points of interest each time they set off on the experience. ($59.95) Media Vision Inc., 3185 Laurelview Court, Fremont, CA 94538. 1-800-348-7116.

VIDEO CUBE: SPACE

Video Cube is a fast-paced, multimedia video game comprised of an interactive Rubik's cube-like puzzle incorporating 108 Microsoft Video for Windows videos, CD-quality original music, and sound effects. It begins with an animated cube, containing dozens of video fragments, hurling itself through outer space, and the player must unscramble the stills on each side of the cube. The payoff for solving each side of the puzzle is a playing of the complete video. These dramatic sequences are from NASA and include rocket launches, moon walks, and videos of the heavens above and below earth. Video Cube requires a Super VGA monitor and an MPC-compatible CD-ROM, and supports both 8-bit and 16-bit sound cards. ($49.95) Aris Multimedia Entertainment, Inc., 310 Washington Blvd., Suite 300, Marina Del Rey, CA 90292. (310)821-0234.

TROPICAL RAINFOREST

Tropical Rainforest features one hundred color photographic images of life in the tropical rain forest, along with one hundred audio clips of Andean pan flute music, and twenty-five live-action videos. All of the sounds, videos, and color images were produced by Bolivian artists living in the rain forest. The artists will receive royalties on their work, and a portion of the proceeds will be donated to help preserve the world's rain forests. It supports Windows/MPC, MS-DOS, and Macintosh formats on the same disk and self-running slide shows. ($39.95) Aris Multimedia Entertainment, Inc., 310 Washington Blvd., Suite 300, Marina Del Rey, CA 90292. (310)821-0234.

SHAKESPEARE STUDY GUIDE

The Shakespeare Study Guide is targeted toward students, scholars, and fans. This CD-ROM, which includes both MS-DOS

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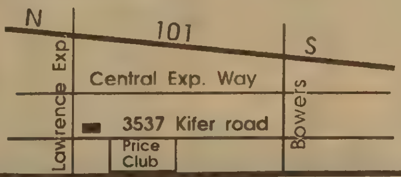

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- Teac 2.88 & 1.2MB FDD
- 4 MB 70NS RAM
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- Maxi 101 Keyboard

ISA VESA
486DX2-66/ DX33
$1995 / 1795

EISA VESA
486DX2-66 / DX33
$2245 / 2045

ORCHID VLB SYSTENM

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- 4MB 70-NS RAM
- VLB IDE Cont.
- 2S/P/G
- Teac 1.44 & 1.2MB FDD
- Maxtor 345MB HDD
- Orchid 1280 VLB Video /1MB
- Mid Tower Case /230W P.S
- 101 Keyboard
- 15" Multi Scan Monitor

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486DX-33	$1599

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- Windbond VLB IDE Cont. w/ 2S/P/G
- Teac 1.2 & 1.44MB FDD
- Maxtor 245MB HDD
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- 101 Keyboard
- 14" Multi Scan Monitor

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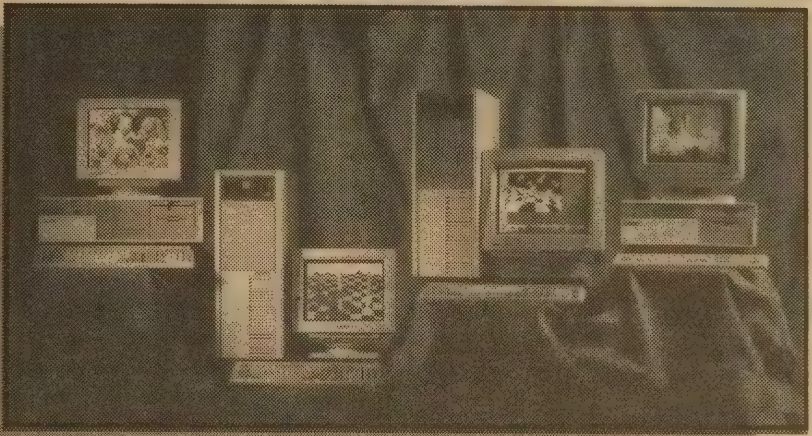

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- **14" Super VGA Color** Monitor (1024x768) **.28 Non-Interlaced**
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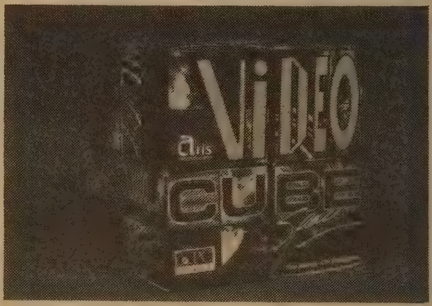

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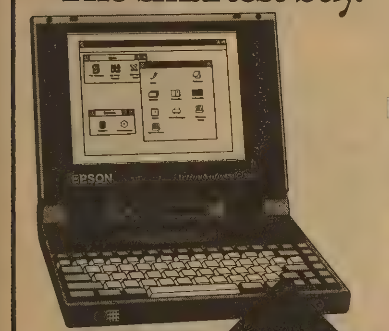

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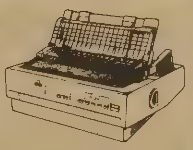

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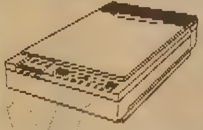

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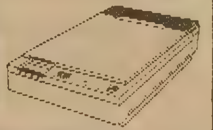

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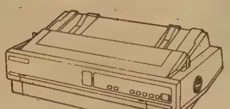

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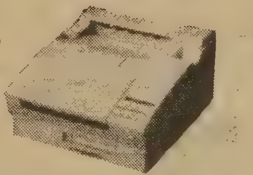

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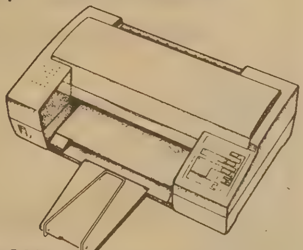

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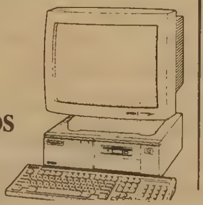

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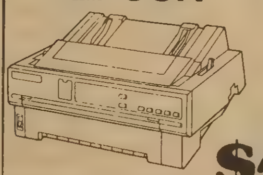

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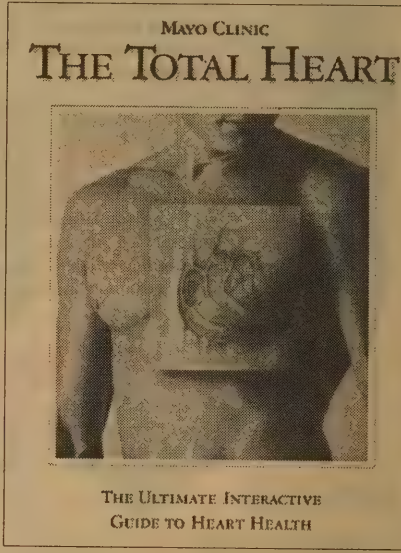

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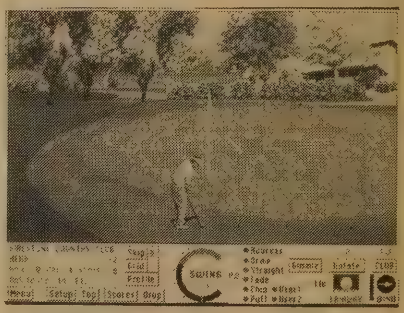

Continued on page 123

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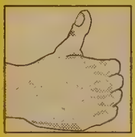

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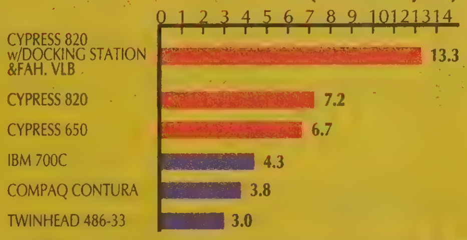

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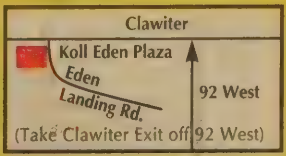

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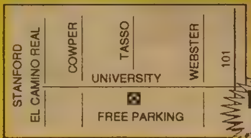

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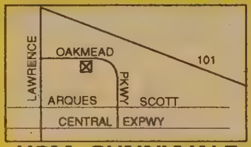

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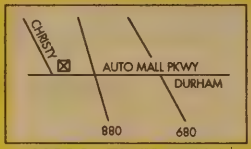

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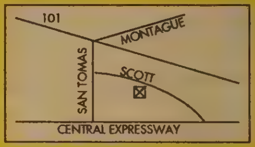

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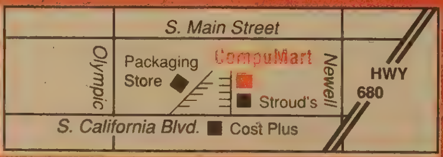
Orchid	VLB/IDE		$ 65
Promise	DC200	IDE CACHE	$105
	DC2040	SCSI CACHE	$159
	DC-4030VL	VLB/IDE CACHE	$139
Trantor	T130	SCSI	$ 75
	T338/T348	Parallel/SCSI	$109/$149
Ultrastor	24F	EISA/ FAST SCSI	$355
	34F	VESA/ SCSI	$249

SCANNERS

Caera	Typist Plus Graphics	$ 199
HP	ScanJet IIC	$1299
Logitech	Scanman 32	$ 105
	Scanman 256	$ 219
	Scanman Color	$ 439
Microtek	Scanmaker II Flatbed Color 600DPI	$ 849
Tamarack	Color 600DPI Flatbed w/OCR	$ 795



VIDEO BOARDS

ATI	Graphic Ultra + 2MB	$245
	Graphic Ultra + VLB 1MB/Pro 2MB	$225/$315
	Graphic Ultra Pro VLB 1MB/2MB	$249/$359
Diamond	SpeedStar Pro VLB/ISA 1MB	$115
	Stealth 24 ISA/VLB 1MB	$159
	Stealth Pro VLB 1MB/ 2MB	$265/$339
	Viper 2MB VLB	$379
Orchid	Fahrenheit 1280+ 1MB	$159
	Fahrenheit VA 1MB	$169
	Fahrenheit VLB 1MB	$149
	Fahrenheit VA/VLB 1MB	$219
Paradise	Windows Accel 1MB	$135
Tseng	ET4000VLB	$125

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Citizen	GSX-230/ GSX-240	$249/$ 295
	Notebook Prt Color	$ 339
Cannon	BJ-10EX/ BJ-20/BJC-600	$259/$309/$ 615
Panasonic	KX-P2123/ KX-P2124	$239/$ 329
HP	Deskjet 500/ 500C	$299/$ 405
	Deskjet 550C/ 1200C	$595/$1375
LASER PRINTER		
HP	Laserjet 4L/4ML	$695/$ 995
	Laserjet 4/4M	$1369/$1895
Okidata	OL400E	$ 529
Epson	ActionLaser 1000/1500	$639/$ 699
	EPL-8000	$ 899
Microtek	TrueLaser 6PPM 2 MB 35 Fonts	$ 999
Panasonic	KX-P4410/ KX-P4430	$569/$ 639

SOFTWARE

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Borland	Borland C++ & Application Frame	$485
	Paradox for Windows	$129
	Dbase IV	$459
	Quattro for Windows	$ 59
Corel	Corel Draw & CD for Windows v3	$135
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	Freelance for Windows	$335
Micrografx	Picture Publisher	$199
	Graphics Works	$ 99
Microsoft	Excel for Windows	$295
	Office for Windows	$445
	Word for Windows	$295
	Workgroup	$ 67
WordPerfect	Wordperfect 6.0 for Windows	$285

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	Acura 14.4 Fax Modem Ext	$255
Intel	14.4 Fax Modem Int /Ext	$189/ $219
	Satisfaxton 400/400E	$289/ $325
Practical P	PM14.4Fax Modem Int/Ext	$209/$225
	PM14.4 Pocket Fax Modem	$354
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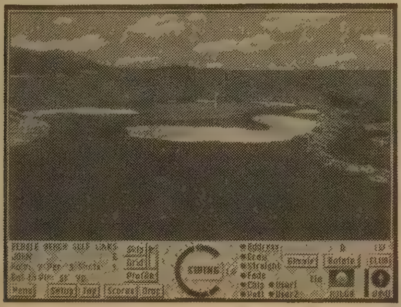

must incorporate them into the Microsoft Golf, the Links, or the Links 386 Pro sports simulations. (Firestone Country Club, $29.95; Pebble Beach Golf Links, $39.95) Access Software Inc., 4910 W. Amelia Earhart Dr., Salt Lake City, UT 84116. (801)359-2900.

ASTÉRIX ET SON FILS: LEARN FRENCH

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YOUTH SOFTWARE

KID'S STUDIO

Kid's Studio: The Next Generation in Storytelling, an all-in-one multimedia application for children, combines a feature set that rivals many adult presentation programs. With an intuitive interface that inspires children to create their own imaginative stories, it offers young users precise controls for paint, text, sound, and special effects to create their own full-screen slide shows, QuickTime movies, and printed stories. Everything is built-in, including a Treasure Chest library of 250 images organized into themes like wild animals, earth and space, zany cartoons, and modern life. Kid's Studio fully supports Kodak Photo CDs. ($59.95) CyberPuppy Software, Inc., PO Box 19500, Rochester, NY 14619. (716)436-3570, or call Maxis, 1-800-336-2947.

THE TREEHOUSE

The Treehouse, designed for children between the ages of six and ten, offers a fun introduction to music, animals, and mathematics that encourages strategic thinking, exploration, and creativity. A child is greeted at the treehouse by the "Awesome 'Possums," who act as interactive playmates, accompanying him or her through the program. The child can choose to play with either a girl or boy 'possum as they ask to be fed, want to take a nap, or play a game. Using a mouse, joystick, or keyboard, the child can easily select the objects that will lead them to other learning activities: The Treehouse Theater (language and dramatic arts), Road Rally chip and coin games (math), Musical Keys and Musical Maze (music), and Animal Album and Guess My Animal (science). The package includes an extensive Kids Guide and Parents Guide, and is currently available for Macintosh Apple II, and MS-DOS computers. ($39.95) Brøderbund Software, Inc., 500 Redwood Blvd., PO Box 6121, Novato, CA 94948-6121. (415)382-4400.

THE BACKYARD

The Backyard offers children ages three to six a diverse collection of exploratory activities. From placing animals in their natural habitats, to mapping the quickest course to buried treasure, children will enjoy themselves for hours. This is the third Brøderbund program by Leslie Grimm and Lynn Kirkpatrick, the design team that created The Playroom and The Treehouse. The Backyard's exploratory environment is filled with activities that introduce young children to animal behavior and anatomy, mapping and directional skills, strategy, and logic. ($34.95) Brøderbund Software, Inc., 500 Redwood Blvd., PO Box 6121, Novato, CA 94948-6121. (415)382-4400.

Continued on page 140

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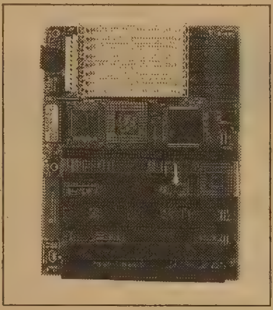
VESA Local Bus



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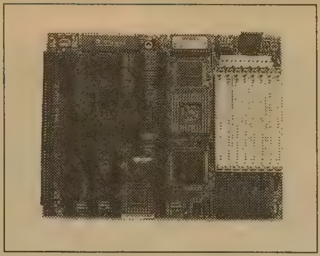

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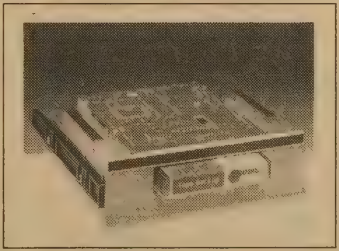

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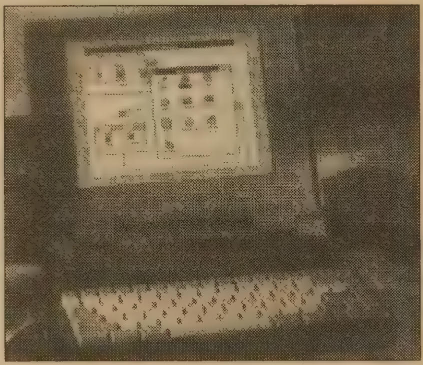

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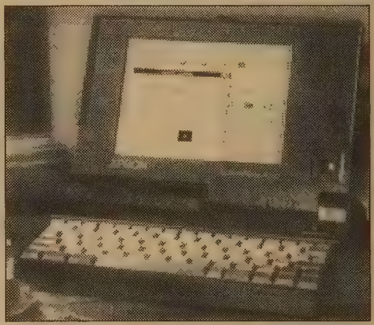

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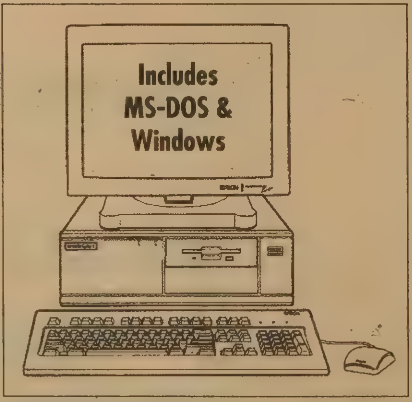

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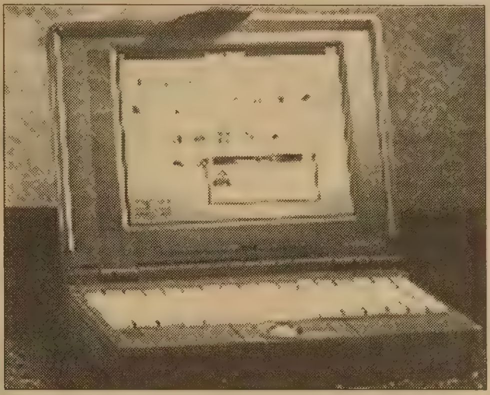

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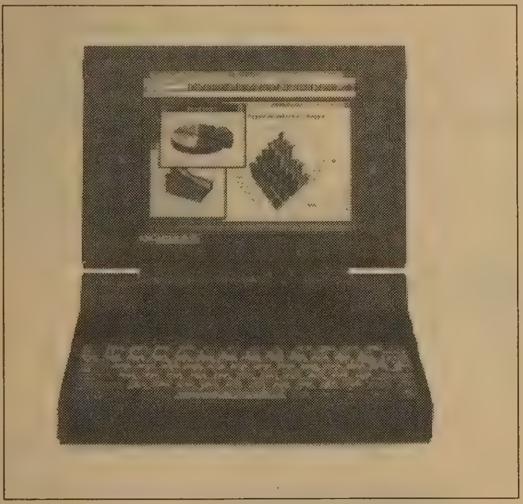

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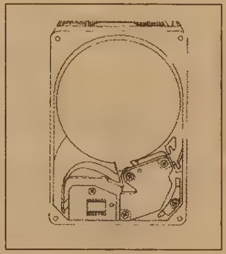

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Canon

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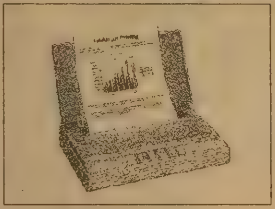

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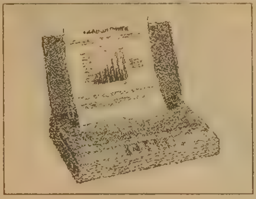

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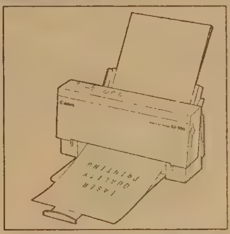

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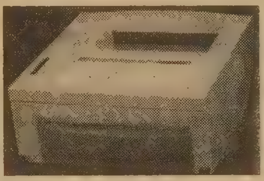

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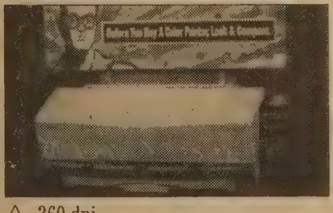

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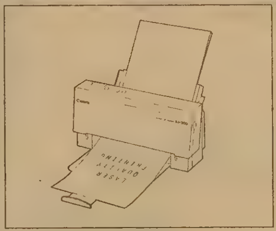

$30 Rebate

- ◊ Prints up to 248cps
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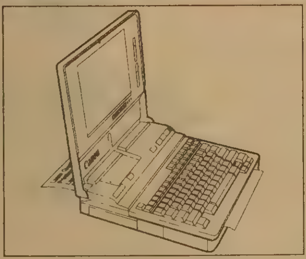
Canon NoteJet 486



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- ◊ Preloaded DOS, Windows & NoteJet tutorial, and more...

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486SX-25MHZ•4MB RAM•120MB HDD

- ◊ Powerful 486SX-25MHz
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- ◊ Built-in trackball
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Mobile Office Solution Source!

TOSHIBA

TOSHIBA

- ◊ 486SX/20MHZ
- ◊ 4MB RAM to 20MB
- ◊ 1.44MB 3.5" floppy
- ◊ Ball Point mouse included
- ◊ DOS, Windows
- ◊ Backlit LCD VGA
- ◊ 1 PCMCIA expansion slot
- ◊ Option security lock
- ◊ Advanced power management
- ◊ 1-year limited warranty

LEADER in Portable Computing

TI900™ 486SX Notebook

200MB Hard Drive Mono	$2189.00
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AVANTI

Avanti 025

New Affordable Color Notebook

- ◊ 486SLC-25MHz
- ◊ 4MB RAM exp to 20MB
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- ◊ Fax Modem Built-in
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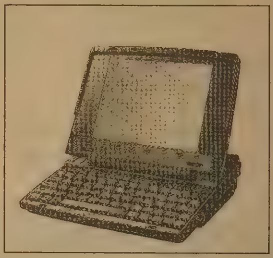

Avanti® 425C Notebooks

120MB HD, 9600 Fax/2400 Modem	$2199.00
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OKI

OKI PHONES

Model #900

- ◊ Store up to 200 phone numbers
- ◊ Convenient built-in users guide
- ◊ Five NAMs for phone numbers
- ◊ Auto answer system
- ◊ Remote feature access capability
- ◊ Auto credit card calling
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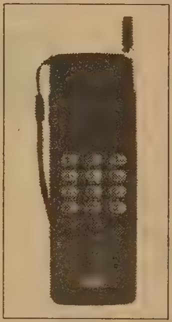

Model #1150

- ◊ Retractable antenna
- ◊ 100 memory locations
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- ◊ Three NAMs for carrier service
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- ◊ Three year warranty
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The new Tote phone offers 30 number and 3 watts of power w/ 7-Digit LCD display.

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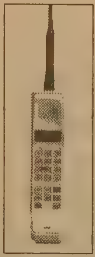
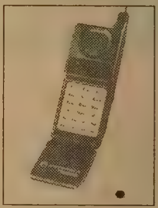


The most popular handheld phone allows you to talk up to 90 minutes & keep up to 30 numbers!

$198

Flip Phone DPC-550



The most popular flip phone lasts up to 100 min. of talk time & 30# memory. Case & over night charger included.

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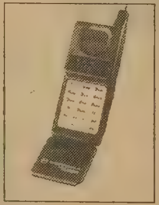
Flip Phone DPC-950 Base



Weighing only 9.9 oz, this phone is packed w/ features such as 101 alpha numeric memory, 100 min. talk time battery & charger!

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The lightest phone available weighing 5.5 oz. 100# memory will vibrate to alert an incoming silently.

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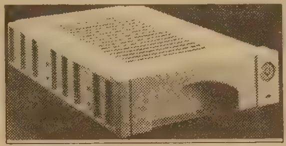
Allows easy installation & removal of hard drives. The perfect way to protect & transport all your valuable data!



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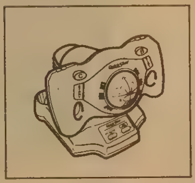

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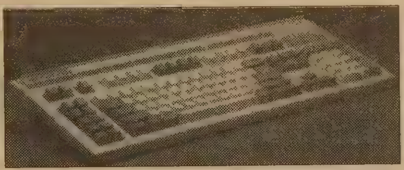

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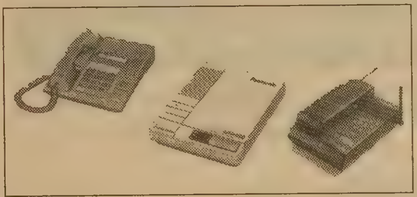

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- ◊ And more...

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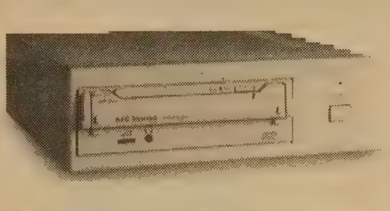

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MIDI Music Shop	22
Monkey Island	24
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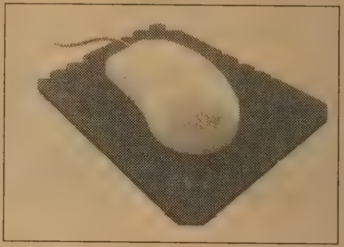

Mouse Pad 99¢

PS/2 version 89.00

$69.99 *Serial Version*

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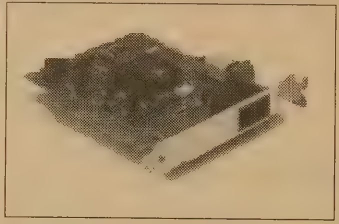

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- ◊ RPI Based V.42 bis, MNP 2-5
- ◊ Easy-to-use Menus
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- ◊ 10-year Limited Warranty

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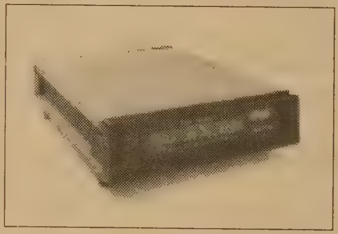

9648/24e External Fax Modem

- ◊ 9600/4800R-2400bps data
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- ◊ Includes Communication & Fax Software
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LOGITECH

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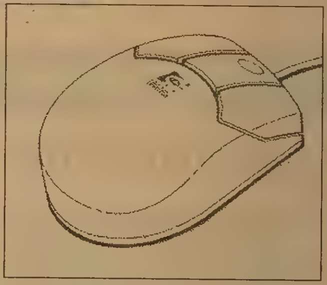

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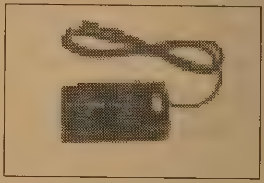

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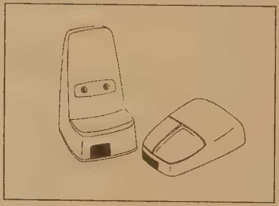

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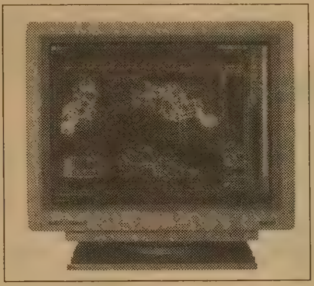

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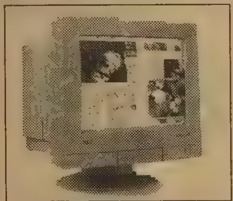

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- ◊ 15", .28mm flat square CRT
- ◊ 1024x768 at up to 60Hz
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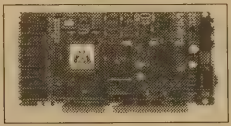

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Mac/PC Compatible

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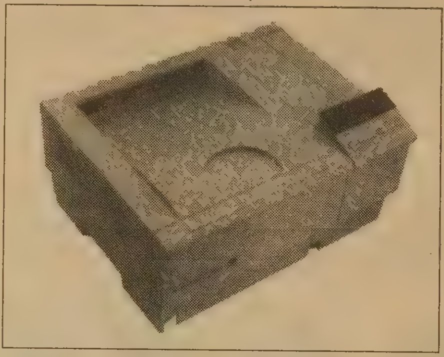

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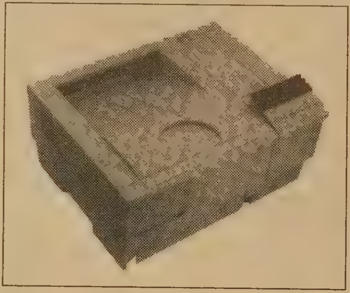
- ◊ Built-in Convenience Tray
- ◊ Built-in Auto Emulation
- ◊ Includes AppleTalk™
- ◊ Optional 2nd Tray
- ◊ Optional Ethernet® & Token Ring

POSTSCRIPT™

$1399

Silentwriter® 95f



Get The Perfect Deal On The Laser Printer That's a "Perfect 10"

- ◊ 6 ppm, 2MB RAM exp to 5MB
- ◊ 35 scalable Adobe fonts
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- ◊ HP Laserjet III w/ PCL-5 emulation
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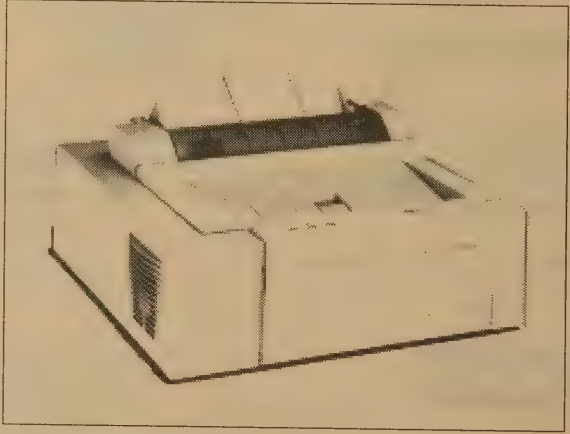

- ◊ 300dpi, 6 ppm
- ◊ GDI plus PCL 4
- ◊ 2 year overnight replacement
- ◊ 34 scalable Truetype fonts
- ◊ Energy Star compliant

*Ask any Sales Rep for a printer demonstration and receive a FREE computer cleaning kit!**

- Three times faster than competitive printers
- On-screen printer status & control
- Two-year replacement warranty
- See printer demonstration and get a free cleaning kit

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* Quantity limited, Please no substitution

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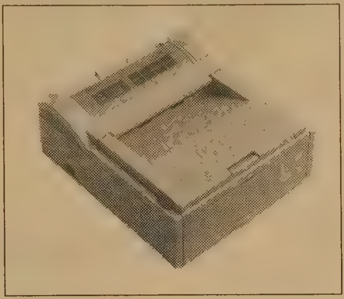
Discount Certificate Amount	$25	$50	$100 $50/$50
Printer Model Applicable	ML380	ML590 ML591 OL400e	ML395/C OL810 OL830+ OL850
Discount Value	Valid for tickets valued at $200+	Valid for tickets valued at $300+	Valid for two $50 discounts for 2 tickets each valued at $300+. must be purchased together, but different passengers and different iteneraries are allowable.



- ◊ Compact Size and sleek design fits comfortably on any desktop
- ◊ Fast 4ppm printing with RISC micro processor for higher productivity
- ◊ 44 fonts for great-looking correspondence and reports
- ◊ Perfectly compatible with virtually all software applications

$499.99

OKI OK!

9-PIN

ML-320/321	300cps	319/459.00
ML-520/521	auto form sensing	388/519.00
ML-3410	Fast 550cps! 8-part forms	1288.00

24-PIN

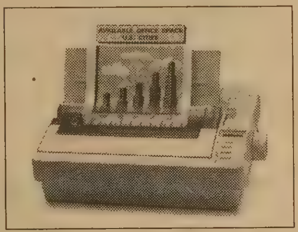
ML-380	192cps, 63cps	229.00
NL-590/591	auto form sensing	469/599.00
ML-395	NEW! Fast 607cps 5-part Forms	988.00

Citizen

CITIZEN™

$169

200GX
Color Printer



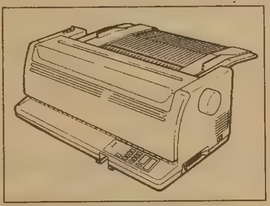
The least expensive COLOR printer in the market!

- ◊ 240cps, 9-pin printer
- ◊ 5 built-in fonts
- ◊ Paper parking
- ◊ Fontlocking feature
- ◊ 2 year limited warranty

Fujitsu

FUJITSU
Wide Carriage

Ideal for Business & Home Office



DL1200

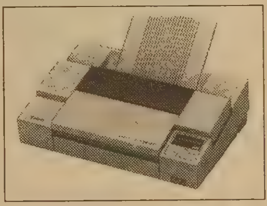
- ◊ 200cps for high-speed draft
- ◊ Fujitsu, IBM & EPSON emulation
- ◊ 136-column printer line
- ◊ 24-wire print head for crisp output
- ◊ Small footprint design occupies less space

$289

CANON

Canon

High Performance Color Ink Jet for the Professionals



BJC-820 Color Ink Jet

- ◊ 4 pages per minute
- ◊ 1Mb RAM, PCL-5
- ◊ Auto emulating software
- ◊ Printer sharing capability

MAC Compatible

$1599

Hewlett Packard

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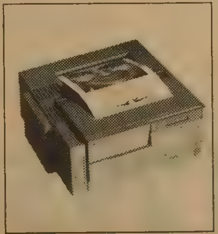

Deskjet 500 Ink Jet	298.00
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4L 4ppm, 300dpi, PCL-5	669.00
4ML 4ppm, Mac compatible	999.00
4 8ppm, 600dpi, PCL-5	1399.00
4M 6ppm, Postscript Mac/IBM	1949.00
4P 4ppm, 600dpi, PCL-5	995.00
4Si 17ppm, auto interface switch	2995.00
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DeskJet 500C	398.00
DeskJet 550C	588.00
DeskJet 1200C Color 6ppm, 2MB RAM	1399.00
SCANNERS	
ScanJet IIP with interface	749.00
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w/ any dot matrix purchas
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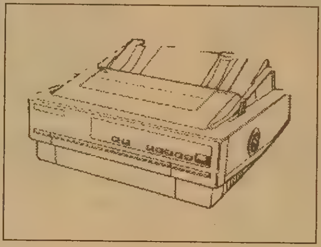

NEW! Faster and with more fonts!

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- ◊ 14 built-in fonts
- ◊ 2 year warranty

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FX-870/1170	$279/359.00
DFX-5000 9-pin SUPER FAST 530cps	1350.00
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LQ-870/LQ-1070	469/398.00
LQ-1170	609.00
LQ-2550 400cps	899.00

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STYLUS 800

Ink Jet Printer

$299

STYLUS 300 Ink Jet $249

- ◊ Fast 150cps
- ◊ Crisp 360dpi laser quality
- ◊ 7 typefaces w/ 4scalable fonts
- ◊ Quiet 45dBA
- ◊ Compact footprint
- ◊ 100-sheet plain paper tray
- ◊ Prints envelopes with ease
- ◊ 2 year warranty

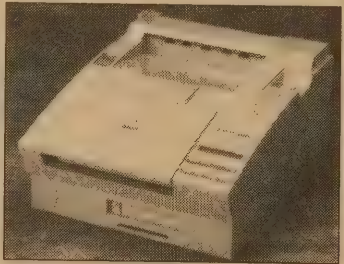
Replacement Ink Cartridge
PTE800C
$19.95

ActionLaser 1500

Scalable!

- ◊ 6ppm
- ◊ 1MB RAM exp to 5MB
- ◊ 14 resident, 13 scale fonts
- ◊ 1 cartridge slot
- ◊ 150-sheet universal tray
- ◊ HP III/IIIsi, PCL-5 emulation
- ◊ 2 year warranty

$678



ActionScanning ES-600C

- ◊ Output resolution 50-600 dpi
- ◊ 24-bit color, 8-bit greyscale
- ◊ Exclusive TruePass™ technology
- ◊ Built-in imaging procesing features: brightness, gamma, color correction
- ◊ Available for PC or Mac

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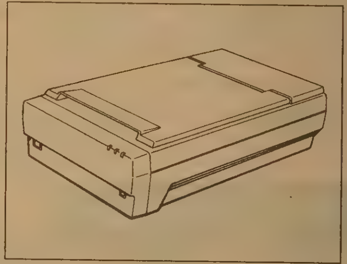

Action Laser 1000

- ◊ 6ppm
- ◊ 512K RAM exp to 6.5MB
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- ◊ 1 cartridge slot
- ◊ 150-sheet universal tray
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- ◊ 2 year warranty

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Action Scanning ES-800C

- ◊ Output resolution 50-800dpi
- ◊ 24-bit color, 8-bit greyscale
- ◊ Exclusive TruePass™ technology
- ◊ Built-in imaging processing features: brightness, gamma, color correction
- ◊ Available for PC or Mac

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Panasonic Office Automation

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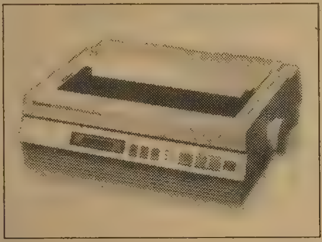

KX-P1624

The Most Affordable Wide-Carriage Printer Available!

- ◊ 24-pin
- ◊ 192cps, 63cps LQ
- ◊ 7 built-in fonts
- ◊ 2 year warranty

$249

KX-P1124i

The Most Reliable Heavy Business Printer Available!

- ◊ 24-pin
- ◊ 300cps, 100cps LQ
- ◊ 11 built-in fonts
- ◊ 2 year warranty

$199

KX-P2123

A Quiet Printer Offering a Color Option!

- ◊ 24-pin
- ◊ 240cps, 80cps LQ
- ◊ 6 built-in fonts
- ◊ 2 year warranty

$189

KX-P150

Ribbon for KX-P2000 series printer

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DOT MATRIX PRINTERS

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KX-P1695	9-pin, 330cps wide carriage	389.00
KX-P1624	24-pin wide carriage	379.00

The Quiet Series Printer!

Come Hear the difference! 43.5dBA

2100 Series Color Option $49.95

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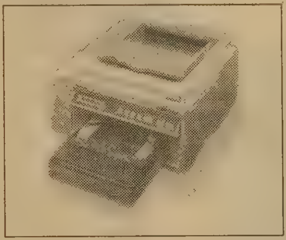
KX-P2123	24-pin, 240cps, 6fonts	239.00
KX-P2180	9-pin, 240cps, 6NLQ fonts	169.00
KX-P2624	24-pin, 300cps, 11 fonts	399.00

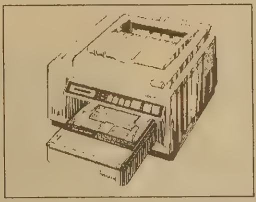
KX-P4430
Laser Printer



- ◊ 5ppms
- ◊ 1MB exp to 5
- ◊ 200 sheet capacity
- ◊ 300dpi resolution

$669

KX-P4410
Laser Printer



- ◊ 5ppm
- ◊ 512K RAM exp to 4.5MB
- ◊ 250 sheet capacity
- ◊ 300dpi resolution

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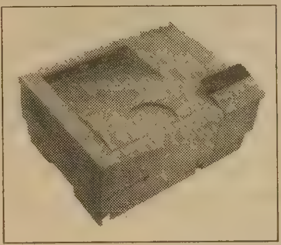
- ◊ 68040 processor, 25MHz
- ◊ 8MB RAM Memory
- ◊ Optional monitor & keyboard

NEC Silentwriter 95f

- ◊ 6ppm, 2MB RAM ext to 5MB
- ◊ 35 scalable Adobe fonts
- ◊ 14 bitmaps & 8 scalable HP fonts
- ◊ HP LaserJet III w/ PCL-5 emulation
- ◊ Auto Interface Monitoring



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4M Postscript 6ppm 600 dpi	1899.00
Brother HJ-400 Ink Jet	299.00

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Sherlock Holmes	23.00

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Continued from page 123

FUNNY FACE

Funny Face, for children ages three to twelve, is a full-color cartooning program that exercises your child's imagination. Faces are easily constructed by making selections from panels of hair, eyes, ears, noses, mouths, eyebrows, and beards. After designing a Funny Face, you can color it in, give it a name, and print it. Pictures can easily be saved to disk in PCX format so they may be imported into other programs. Funny Face is for IBM-compatible computers and supports a Microsoft mouse. ($29.95 and comes with a no-questions-asked 30-day money back guarantee) Perfect Niche Software, Inc., 6962 E. First Ave., Suite 103, Dept FF, Scottsdale, AZ 85251. 1-800-947-7155.

Top: The Treehouse; Bottom: The Backyard, both by Brøderbund Software, Inc.

DR. T'S SING-A-LONG

Dr. T's Sing-a-Long introduces children between the ages of four and ten to "Three Blind Mice"; "Twinkle, Twinkle, Little Star"; and twenty-four other classic children's songs. Animated talking characters such as "Old McDonald" and "Yankee Doodle," appear on the screen to accompany each song. Words and musical notation scroll by in time with the music. A musical icon moves from word to word to help users keep place as they sing. There is a control panel of big, easy-to-understand buttons specially designed for young users. With the software's karaoke features, parents can mix their kids' voices in with the musical accompaniment for a true sing-a-long. Dr. T's Sing-a-Long is available on floppy disk and CD-ROM. ($49.95) Dr. T's Music Software, 100 Crescent Rd., Needham, MA 02194. (617)455-1445.

PETER PAN: A STORY PAINTING ADVENTURE

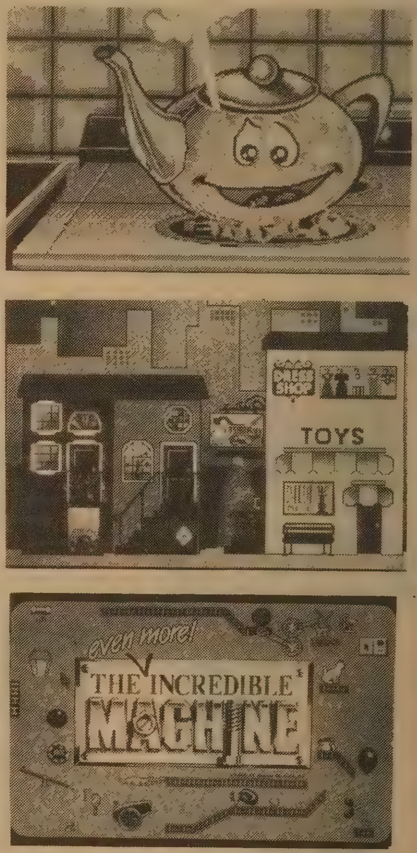
Designed for children ages five to nine, the Story Painting interface combines elements from story books, graphic adventures, and interactive cartoons, allowing children to direct the events in the stories they read using magical, animated paint tools called paintbox Pals. Peter Pan is the first title in the Story Painting series. Children choose creative solutions to help Peter throughout his adventures. With more than thirty scenes and hundreds of possible choices, each story (or retelling) of Peter Pan is unique. Throughout the adventure, Peter Pan reinforces process learning skills including reading, creativity, cause and effect, decision making, and teamwork. Electronic Arts/EA*Kids. (415)571-7171.

SHELLEY DUVALL'S IT'S A BIRD'S LIFE FOR 3DO

Created and narrated by actress and children's entertainment producer Shelley Duvall, Shelly Duvall's It's a Bird's Life is a story about a group of lovable, zany parrots that embark on an odyssey from Los Angeles to the Amazon forest and back again. Created for children age three and up, Shelly Duvall's It's a Bird's Life combines an original story, artwork by award-winning Teenage Mutant Ninja Turtle illustrator Andrew Pratt, and multimedia extras to create an entertaining and educational story experience. This new version for the 3DO system includes new games and activities not achievable on any other platform. For instance, for 3DO it features a 3-D finger painting game where children can leave rainbow paint trails with different objects to achieve a colorful kaleidoscope effect. ($54.95) Sanctuary Woods Multimedia Corp., 1875 S. Grant St., San Mateo, CA 94402. (415)578-6340.

ZURK'S LEARNING SAFARI

Zurk's Learning Safari is a colorful, content-rich multimedia exploratorium that introduces children three to seven years old to cognitive skills applicable to life science, reading, and basic math. Zurk and a cast of animals leads young children through seven enchanting activities that foster open-ended, explore-and-discover learning. It features enchanting water color-based graphics comparable to the art found in the best children's books, as well as original African-flavored music. The program promotes discovery-based, whole-mind learning, and offers a positive, supportive environment that encourages children to explore and learn at their own pace. ($59.95, Mac or PC) Soleil Software, Inc., 3853 Grove Court, Palo Alto, CA 94303. (415)494-0114.



Top: Dr. T's Sing-a-Long; Middle: Automenu for Kids; Bottom: The Even More Incredible Machine game for tinkerers of all ages

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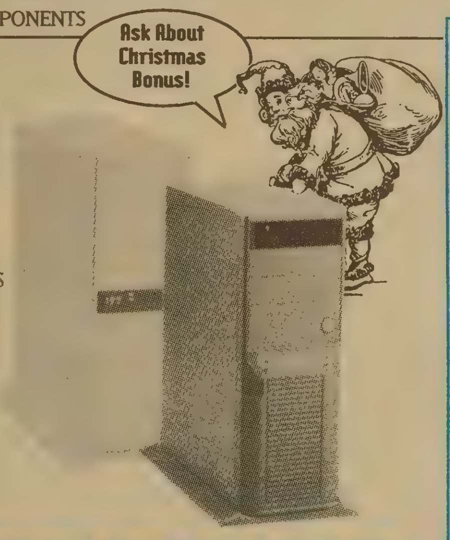
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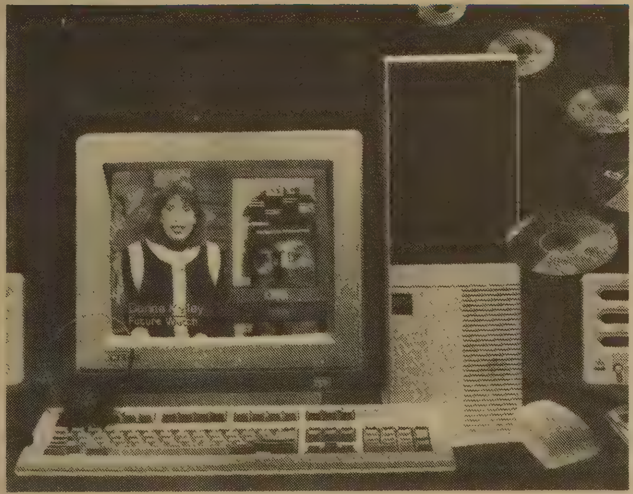

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- TURBO VLB IDE I/O CONTROLLER W/2S, 1P, 1G
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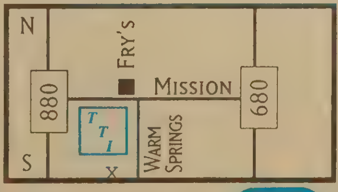

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for Kids to prevent kids from accessing areas of the computer that are "off limits." The menu has a "lock and key" system which can, for example, give kids access to only games and learning software. Aimed at children between the ages of three and twelve, Automenu for Kids starts selected software quickly and easily, with a keystroke or click of the mouse button. Kids can choose from three colorful menu backgrounds: a spaceship cockpit, a video arcade, and a city street. Older children can also use the security features. They can assign a "secret word" to their menu to protect it from use by younger siblings. ($29.95) Magee Enterprises, Inc. 2909 Langford Rd., Suite A600, Norcross, GA 30071-1506. (404)446-6611.

SCAVENGER HUNT ADVENTURE SERIES: AFRICA

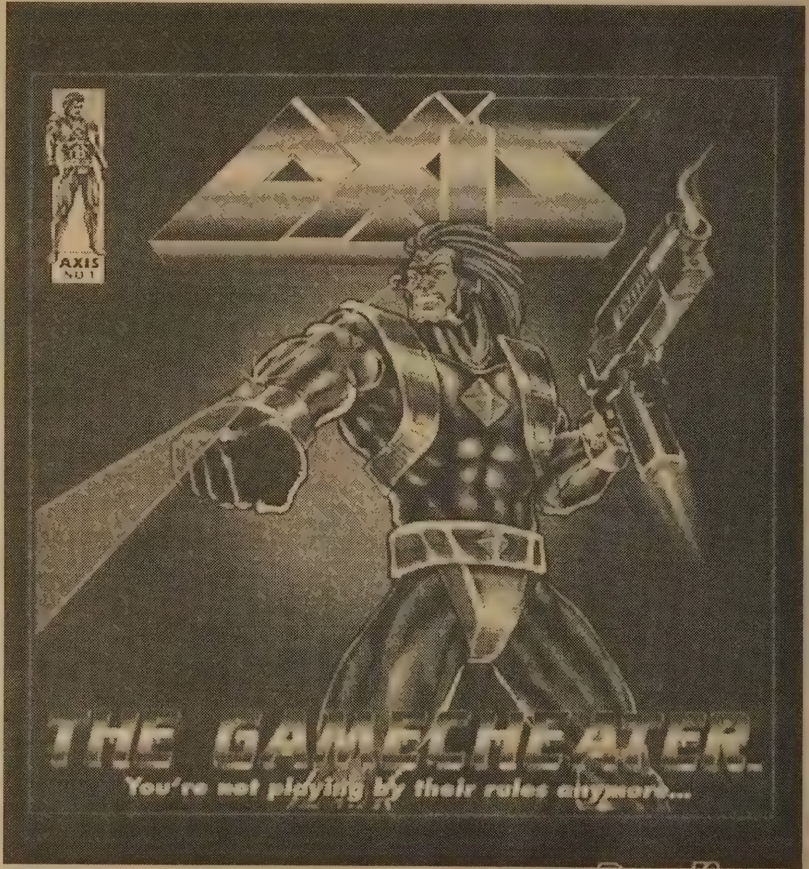
Scavenger Hunt Adventure Series: Africa is interactive, educational CD-ROM software for anyone aged six or older. It allows players to experience the wonders of "virtual landscape" with 360-degree navigation while journeying through four African regions—the Congo Rainforest, the African Savanna, the Sahara Desert, and the Island of Madagascar. With the help of a vulture named Vic and a set of six clues, players seek a group of African animals. The clues describe characteristics associated with each of the animals being sought; for example, "a striped stallion" leads players to a zebra. Each game's scavenger list is randomly generated from the program's library of forty-seven animals and fifteen plants. It requires a Macintosh II series computer or better running System 7.0 or higher and a CD-ROM drive. ($49.95; teacher packs for $69.95 and lab packs for $149.95) Davidson & Associates, Inc., 19840 Pioneer Ave., Torrance, CA 90503. (310)793-0600.

GAMES

THE EVEN MORE INCREDIBLE MACHINE

A successor to the original The Incredible Machine, the game asks players to piece together convoluted Rube Goldberg-style contraptions whose final movement solves stated puzzle goals. With its ascending levels of difficulty, the game is designed for tinkerers of all ages. In addition to 160 levels of brain-busting pre-set puzzles, new characters, new music, and expanded musical hot keys, The Even More Incredible Machine also delivers a unique new tool for building, saving, and trading puzzle machines with other players. This puzzle builder allows friends to challenge each other online or through the mail. ($49.94, Macintosh, MS-DOS, and Windows) Dynamix, Inc., Part of Sierra Online, 1600 Millrace Dr., Eugene, OR 97403. 1-800-326-6654.

Scavenger Hunt Adventure Series
africa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Above: Scavenger Hunt Adventure Series: Africa; Axis the Gamecheater

AXIS THE GAMECHEATER

AXIS the Gamecheater allows you to cheat on your favorite Macintosh and DOS computer games. You can outfit yourself with additional lives, weaponry, time, money, or fuel. In other words, with Axis installed in your computer you can override predefined game functions. Before playing a particular game, you simply open the AXIS control panel and choose that game. You then choose among the "game enhancements" available. While playing the game you can activate these game enhancements with hot keys that appear on-screen. Fifty Macintosh games and forty PC-DOS games are currently supported by AXIS. Support for new games is always in development and available for a nominal fee. ($59.95 for Mac, $69.95 for PC) Baseline Publishing, Inc., 1760 Moriah Woods, Suite 5, Memphis, TN 38117. (901)682-9676.

CHESSMASTER 3000

This new Macintosh version of

Continued on page 147

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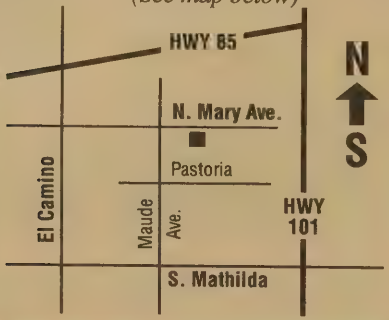

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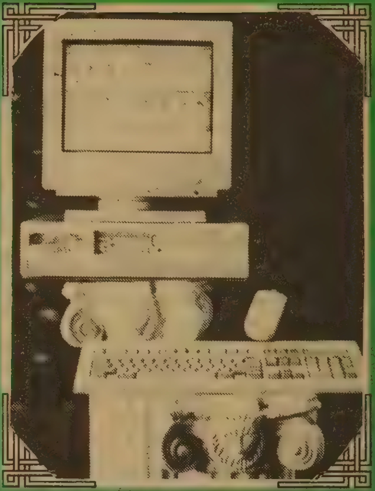

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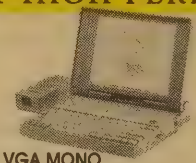

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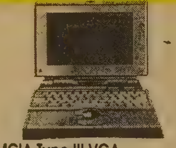

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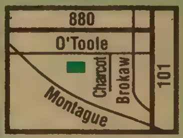

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HOLIDAY
Gift Guide

Below: Firefall Arcade
Right: Simcity 2000
Bottom: Chessmaster 3000

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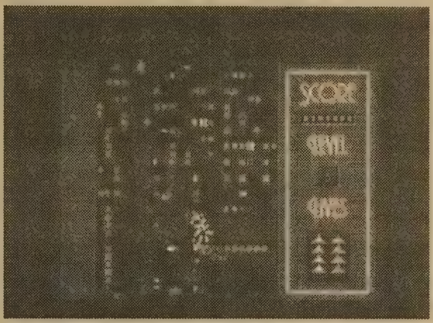
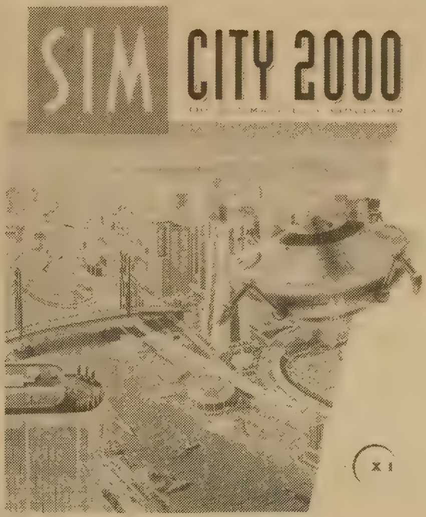
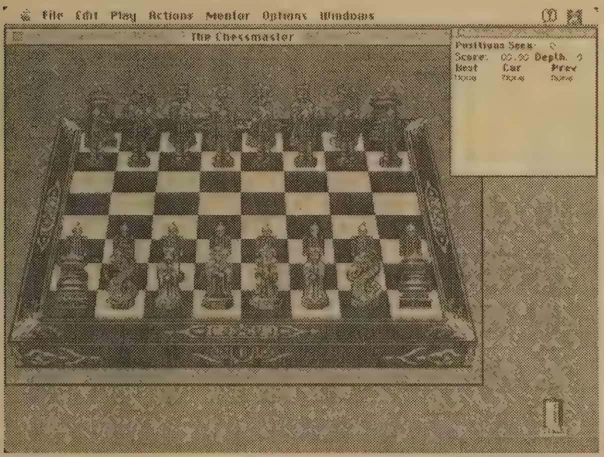




Chessmaster 3000 introduces features previously found only in the PC version. They include a teach and advice mode to help users improve their skill; chess set options that include a medieval fantasy collection, an undersea group, and a Chinese set; and viewing perspectives that include 3-D, 2-D, and a 90 degree rotation of the board for viewing from all sides. A War Room feature provides windows of statistics, listing captured pieces, recalling all past moves, and revealing possible future moves for consideration. Players may create their own opponents or choose from a library of personalities with different playing styles and skill levels. Chessmaster 3000 supports 256-color and monochrome graphics. ($49.95) The Software Toolworks, 60 Leveroni Ct., Novato, CA 94949. (415)883-3000.



FIREFALL ARCADE

Firefall Arcade is a fast-paced game for the Macintosh in the style of classic video. The object is to destroy as many fireworks as possible as they slink their way down your computer screen past various barriers. As the player progresses through levels, the fireworks become more ferocious and the challenge grows. Players can gain more maneuvering space and collect powerups (three-way fire, double ships, invincibility, the ability to pass through barriers, and heat-seeking missiles) by clearing barriers. Additional challenges include everlasting barriers, barrier droppers, and a huge cube that pursues you relentlessly trying to destroy your ship. ($49.95) Inline Software, Inc., 308 Main St., Lakeville, CT 06039. 1-800-453-7671.

UNNATURAL SELECTION

Unnatural Selection, a MS-DOS-based artificial life battle game, incorporates clay animation, actual film footage, and the latest artificial life technology to deliver an intriguing combination of simulation and sci-fi thriller. Players take the role of a genetic engineer who uses selective breeding and mutation to develop artificial creatures called Theroids, in order to fight similar monsters created by a fellow scientist gone mad. Success depends on formulating battle strategies to overcome hordes of enemy Theroids infesting a series of nine islands. ($49.95) Maxis Corp., 2 Theatre Sq., Suite 230, Orinda, CA 94563. (510)254-9700.

SIMCITY 2000

Subtitled the Ultimate City Simulator, SimCity 2000 for the Macintosh combines dozens of new features and stunningly realistic 3-D graphics with the intuitive interface and engrossing gameplay of the original SimCity. Some of what players simulate include: governing a population of citizens who have competing interests and try to keep the

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Photos Clockwise:
Iron Helix, Greatful Dead On Your Desk, Cyberspace, Unnatural Selection

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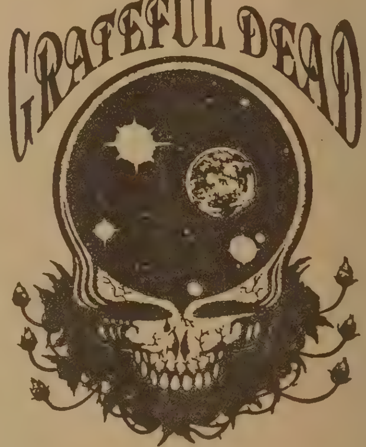

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Continued on page 180

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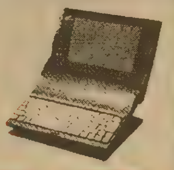

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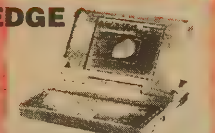

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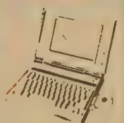

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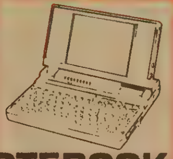

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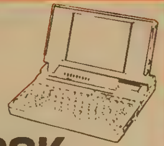

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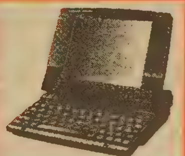

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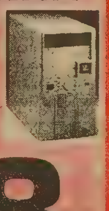

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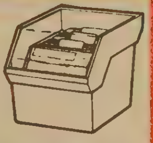

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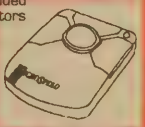

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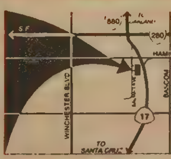
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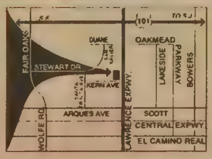
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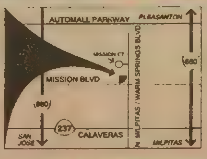
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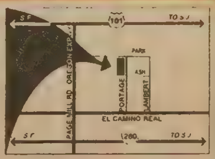
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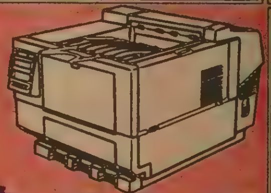

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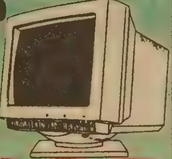

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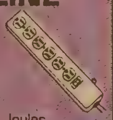

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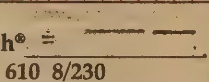

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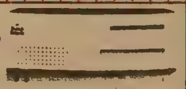

Apple® Macintosh® Quadra™ 650 8/230

If you've been waiting for a high-performance computer that's easy to expand, welcome to the Apple Macintosh Quadra 650 computer. As one of our most powerful personal computers, the Macintosh Quadra 650 is a good choice if you need a computer that's built for speed, designed for flexi-bility, and capable of growing with you. Based on the fast, 33-megahertz Motorola 68040 processor, the Macintosh Quadra 650 provides affordable high performance. It comes with 8 megabytes of RAM and an integral math coprocessor. For increased performance, you can expand memory to up to 136 megabytes.
#1849013

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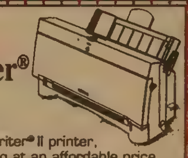

Apple® StyleWriter® II Printer

The Apple® StyleWriter® II printer, laser-quality printing at an affordable price.

- 360 dots per inch quality.
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- Comes with 39 scalable TrueType™ fonts
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- All Macintosh products are designed to work together.

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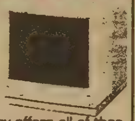
$274

Apple• Portable StyleWriter• Printer

The Apple® Portable StyleWriter® printer goes anywhere and everywhere with Apple Macintosh® and PowerBook™ computers. It delivers high-resolution output, and versatile paper handling, all with smooth, quiet performance. And it even fits inside a briefcase. The Portable StyleWriter weighs only 4.5 pounds, and works with any PowerBook, Apple PowerBook Duo™, or Macintosh® computer, using a rechargeable battery or a standard power source. It can print in a horizontal or vertical position, so you can use it in even the most confined spaces, whether you need to print on letterhead, envelopes, labels, or transparencies.
#1820443

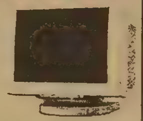
$399



Apple® 14" Color Display

The Macintosh Color Display offers all of thse benefits—and sets new standards for performance. With this display you'll see right away that lines are perfectly straight. Edges are sharp. Colors are pure and uniform. And image definition is crystal clear over the entire area of the screen, even in your finely detailed drawings.
#1849080

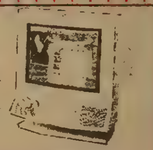
$299



Apple® 14" Color Trinitron Display

The new Apple® Macintosh® Color Display provides the high quality and practical ergonomic design you expect from Apple. Its color and gray-scale capabilities give you versatility for a variety of projects. And its enhanced electronics allow this 14" monitor to display full-color images with photographic quality. The display's low, stable center of gravity keeps it from being easily tipped over, and its built-in tilt-and-swivel base make adjustment easy.
#1738513

$499



Apple® AudioVision 14" Display

Apple's newest color display, offering integrated audio and video features that let you take full advantage of the multimedia features of your software applications. Built-in stereo speakers and microphone are specifically engineered to take advantage of the integrated telecommunications and speech technologies of the Macintosh Quadra 660AV and Macintosh Quadra 840AV computers.
#1820410

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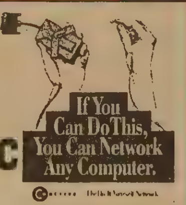
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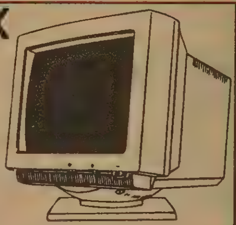

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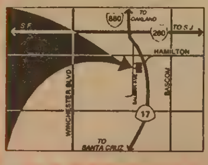

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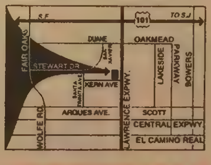

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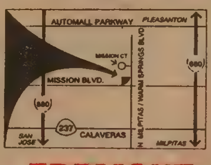

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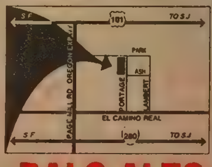

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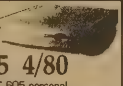


Apple® Macintosh® Quadra™ 605 4/80

The Apple® Macintosh® Quadra™ 605 personal computer, Apple's most affordable high-performance desktop system, is an ideal multipurpose personal computer for business and professional users. Like all Macintosh Quadra computers, it puts the highest levels of Macintosh performance and flexibility at your fingertips. Yet the Macintosh Quadra 605 brings the cost of high performance down to almost any budget, and its new, slimline design saves desk space. The Macintosh Quadra 605 uses the powerful 68OLC40 processor, so you can scroll, search, and sort through your applications faster than ever before. You'll also appreciate the speed with which the Macintosh Quadra 605 redraws graphics, recalculates spreadsheets, and reformats large documents. It comes with 4 megabytes of RAM on board, expandable to 36, so you can work with multiple applications simultaneously.
#1848964

$887

Apple® Macintosh® Centris™ 660AV 8/500 CD-ROM

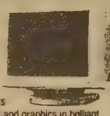
With an innovative architecture that delivers new capabilities in telecommunications, video, and speech, the Apple® Macintosh® Centris™ 660AV computer helps you work and communicate more effectively than ever before. The Macintosh Centris 660AV combines the horsepower of a 25-megahertz 68040 microprocessor with a 55-megahertz digital signal processor (DSP) to achieve outstanding performance. The DSP handles telecommunications, speech, and audio functions, allowing the 68040 processor to handle other tasks, thereby increasing the total system performance. Monitor and keyboard not included.
#1820340

$2899

Apple® Macintosh® Portrait Display

The Apple® Macintosh® Portrait Display is a high-resolution 15-inch monochrome display. It's ideal for work with desktop publishing, word processing, and general productivity applications. The full 8 1/2 x 11-inch page display shows a complete page of information just as it will appear in print. That makes it easy to preview and edit documents and add text or graphics. You'll also find that page layout of text and graphics will be more accurate and much more efficient. And you'll see clearly how the flatter screen and higher refresh rate can minimize flicker, and provide excellent focus for sharp, clear images and text.
#1714203

$724



Apple® Macintosh® 21" Color Display

The Apple® Macintosh® 21" Color Display sets the standard for large-screen color displays, and lets you work with two full pages of text and graphics in brilliant color. The 21" Color Display is ideal if you need a high-performance, large-screen color display for presentations, page layouts, engineering design, or video applications. The 21-inch screen provides more than three times the screen area of standard displays to give you more room to work—and increase your productivity The Macintosh 21" Color Display lets you work with as many colors as your video card will support. You can work with different applications simultaneously, integrate color graphics into presentations and publications, and prepare video and animation presentations to use with television monitors or videocassette recorders All in brilliant, vivid, pure color.
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AppleCD 300™ External

The AppleCD 300™ drive allows you to access text, graphics, and sound stored on CD-ROM discs. It's a cost-effective tool for easily accessing the thousands of volumes of information stored on CD-ROM discs.
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The PowerCD™ from Apple® is the first portable, three-in-one CD player for CD-ROM, Photo CD, and audio compact discs. Designed for use with Apple Macintosh personal computers, including PowerBook and Performa computers, the PowerCD lets you give high-quality presentations anywhere, anytime. You can tap into thousands of existing computer CD-ROM discs, including reference libraries, databases, clip art and graphics collections, educational and entertainment programs, literature, and interactive books. To get you started, the PowerCD comes with a collection of CD-ROM titles and Kodak Photo CD discs for use at home, at business, or in education.
#1820409

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AppleCD Multimedia Kit

The high-performance AppleCD Multimedia Kit for Macintosh computers offers all the components you need to advance your Macintosh into the CD-ROM and multimedia revolution. This multimedia kit gives you access to the wealth of business resources, educational programs, reference libraries, software, database, clip art and games available on CD-ROM. It comes complete with an external AppleCD 300 external CD-ROM drive, AppleDesign Powered Speakers, all necessary cables and software and up to five CD-ROM titles
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Apple® GEO PORT ADAPTER

For Centris 660AV And Quadra 840AV only.
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Apple® Mouse II

With the Apple Desktop Bus Mouse II, get ready to click, drag, and scroll with greater ease and comfort than ever before. Designed for use with all Apple Macintosh computers that have an Apple Desktop Bus connector, the mouse improves on the ergonomic fit between you and your Macintosh, whether you're pressing the button or clicking, pointing, and dragging objects on your screen. At the tip of the mouse, you'll find a large button that makes clicking easy and makes dragging the on-screen cursor effortless. The tracking ball, located in the front of the Apple Desktop Bus Mouse II, makes it possible for you to use your fingertips, rather than your hand, to position the cursor. As a result, you gain control doing precision work.
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Myst is an adventure game unlike any other, with stunning 3-D photo realistic worlds. Myst is a surrealistic exploration, where every vibrant rock, scrap of paper and sound may hold vital clues to your unraveling a chilling tale of intrigue and deceit.
Mouse, hard disk, System 7.01 or higher and a CD-ROM drive required
MAC
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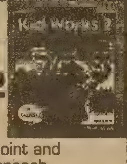

Davidson.

Kid Works 2

Kid Works 2 combines a wordprocessor, point and advanced text-to-speech technology all in one. With the ability to convert text-to-pictures and pictures-to-text, children learn to express their thoughts both visually and in writing.
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Combines a realistic 3-D space flight simulator with a wide variety of role-playing adventures to create a gripping game of galactic exploration. Blast through thousands of state-of-the-art, 3D digitized space action scenes. Scan and survey hundreds of fractally generated worlds.
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MacInTax gives you total control over completing your tax return. It's convenient status bar lets you click on a button and jump right to the tax help you need. It Imports figures from Quicken, and other financial software packages. It's System 7 compatible and includes balloon help.
MAC
#147670

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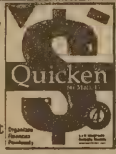

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Quicken VERSION 4.0 FOR MAC

Quicken 4.0 for Mac is the fastest, easiest way to organize personal and small business finances. This award winning and best selling finance software includes:

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KID PIX

Kid Pix is an amazing paint program created just for kids. It combines special effect art tools, picture stamps, sounds and magic screen transformation to turn the computer into a magical art studio. It has a bunch of goofy brushes that make funny sounds. You can even record greetings, poems and music.
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KID CUTS

Give your child Kid Cuts and soon they'll be creating, printing and cutting out all kinds of kid stuff from puzzles and puppets to party hats and paper dolls. Your kids can draw with Wacky Brushes, add great pictures with rubber Stamps, and *presto!* make instant changes with the Magic Wand. And every fun tool comes with its own fun sound. Plus, when your kids are ready to cut out their work, there is a free pair of safety scissors in every box.
MAC
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IRON HELIX CD-ROM

Iron Helix is a science fiction thriller that immerses you in a great paced virtual reality filled with danger and intrigue. Control a robot probe or navigate through dozens of corridors and rooms. This CD action adventure game looks and feels more like a movie than a game.
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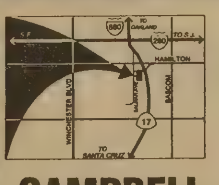

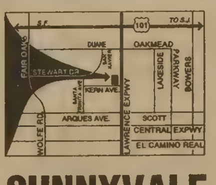

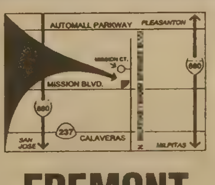

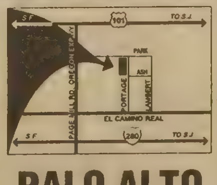

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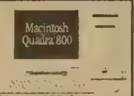
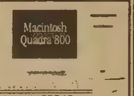


With its fast, 33-megahertz Motorola 68040 microprocessor, accelerated graphics architecture, and improved SCSI and NuBus capabilities, the Macintosh® Quadra™ 800 runs applications 30 percent faster than the Quadra 700. The Macintosh Quadra 800 gives you unique, built-in capabilities for fast and direct access to the resources you need. For photographic quality images and QuickTime movies with lifelike color, you can upgrade the Quadra 800 to display more than 32,000 colors on the same 16-inch display. If you need to share information in a high-speed network, the Quadra 800 comes with built-in Ethernet. • *Monitor & Keyboard Extra*
#1767706

$2999

Apple® Macintosh® Quadra™ 800 8/500 CD



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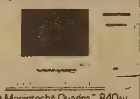
#1767728

$3899

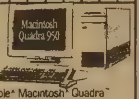
Apple® Macintosh® Quadra™ 840AV 16/500



To put it simply, the Apple® Macintosh® Quadra™ 840AV computer is the most powerful, feature-rich system Apple has ever built. With an innovative architecture that delivers exciting new capabilities in telecommunications, video, and speech, the Macintosh Quadra 840AV helps you communicate more effectively than ever before. The Macintosh Quadra 840AV com-bines the raw horsepower of a 40-megahertz 68040 microprocessor with a 66-megahertz digital signal processor (DSP) to achieve outstanding performance. The DSP handles telecommunications, speech, and audio functions, allowing the 68040 processor to perform other tasks, thereby increasing the total system performance. Monitor and Keyboard not included. #1820373

$4299

Apple® Macintosh® Quadra™ 950



Maximum power, expansion, flexibility—the Apple® Macintosh® Quadra™ 950 personal computer delivers all three in the most powerful Macintosh ever. Unlike other personal computers, the Macintosh Quadra 950 comes with many built-in capabilities that give you fast, direct access to the resources you need. Built-in networking for plugging into Ethernet and LocalTalk®. Built-in support for all Apple displays. Ten built-in ports for instant access to printers, scanners, high-capacity disk drives, and more.
PMMU and 8K of Memory Cache
Running AT 33MHz • 8MB of RAM Expandable to 64MB
5 NuBUS Slots • Processor Direct
Slots support seven SCSI Drives • Built-In Appletalk and Ethernet
Monitor & Keyboard not included
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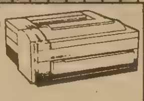
LaserJet 4ML For Macintosh



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- 300 DPI Laser printing with HP Resolution Enhancement technology and microfine toner for smooth, sharp text and graphics.
- 1MB standard memory with Memory Enhancement technology effectively doubles your printer memory.

#1803716

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- Uses 50-70% less energy than comparable laser printers in Powersave mode
- Prints on a wide range of paper sizes and types including mailing lables, postcards, envelopes and index cards
- Enhanced HP PCL 5 for seamless compatibility with the HP LaserJet 4 printer
- 45 built-in scalable typefaces
- 2MB standard memory, expandable to 26MB
- AppleTalk #1844812

$1499

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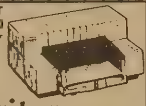

DeskWriter Inkjet Printer

LASER QUALITY FOR THE MAC
300 DPI • Variety of Fonts & Font Sizes
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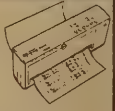

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DINOSAUR ADVENTURE FOR MAC

Is a new type of educational software that is a different adventure in learning each time you use it. DINOSAUR ADVENTURE encourages intellectual discovery as you choose the path of your adventure through time and space, learning about the history and habits of some of the most fascinating creatures that ever lived: THE DINOSAUR..

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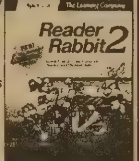
Reader Rabbit 2



Reader Rabbit 2 is designed to motivate first and second grade level children to read on their own as they build a foundation for successful reading. It helps children with:
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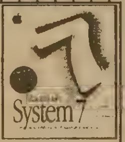
System 7 Pro



Apple's award-winning System 7 software now includes three powerful system software enhancements: PowerTalk, AppleScript, and QuickTime. PowerTalk collaboration software makes it easier than ever to exchange electronic mail and documents with others-anytime, anywhere. AppleScript allows you to automate frequently repeated tasks. And QuickTime lets you add "movies" to your presentations and documents.

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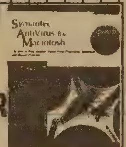
SYMANTEC.

SAM VIRUS DETECTOR MAC



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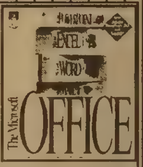

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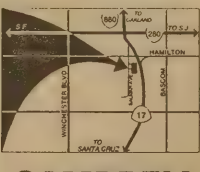

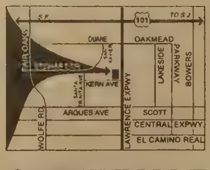

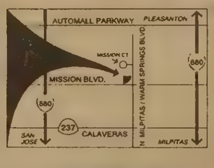

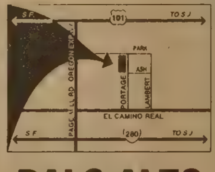

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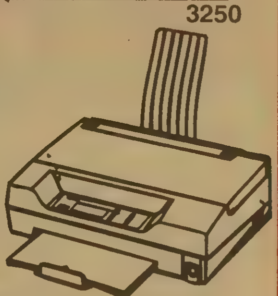

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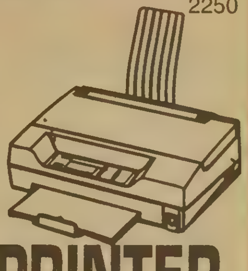

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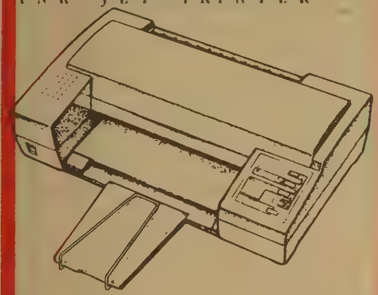

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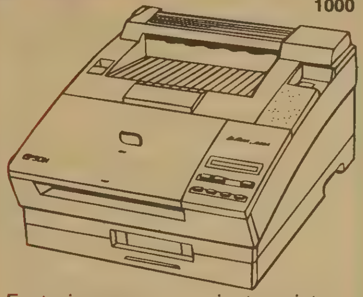

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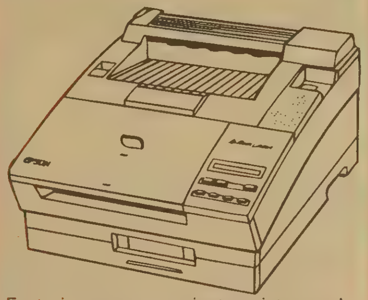

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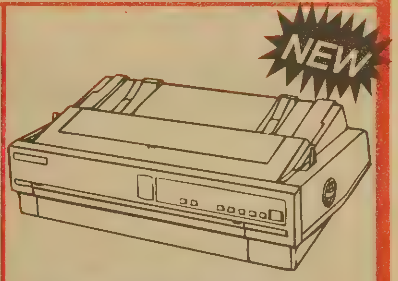

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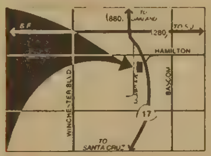
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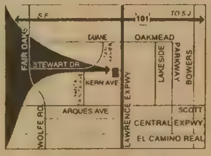
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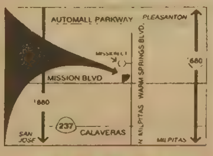
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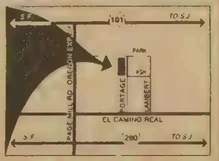
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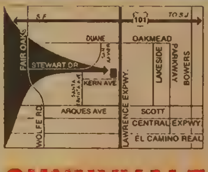

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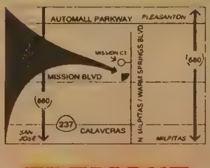

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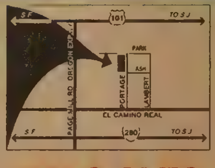

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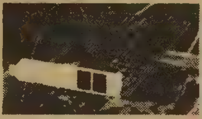

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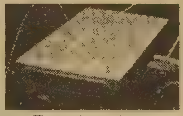

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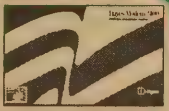

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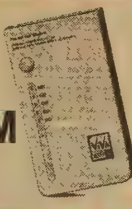

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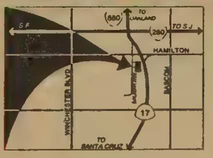
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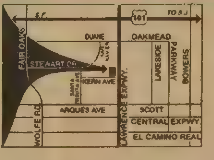
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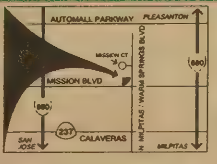
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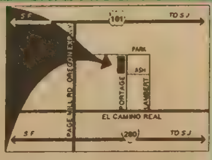
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FaxMe turns your HP printer into a receive only fax machine. It is compatible with all Group III fax machines and will receive at 9,600, 4,800, or 2400 BPS. FaxMe runs without software and without a computer. Lifetime Warranty.
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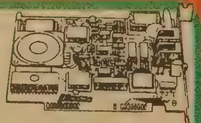

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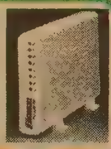

9600 BAUD EXTERNAL FAX/MODEM

V.32 V.42 V.42 BIS • QUICK LINK 11
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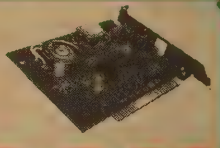

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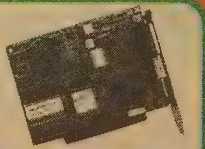

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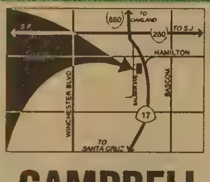
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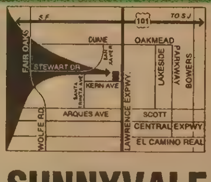
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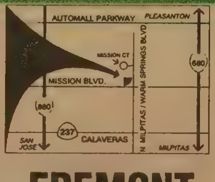
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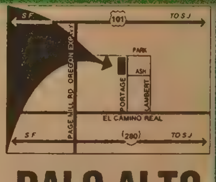
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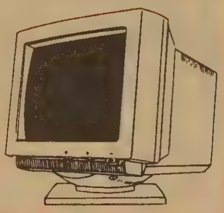
MONITORS

NEC 1431

1024 X 768 NON-INTERLACED 14" SVGA MULTISYNC MONITOR



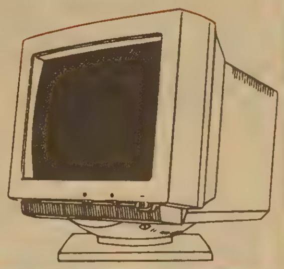
1024 X 768 • Non-Interlaced
Non-Glare • Low ELF & VLF
110/220 Volt

#1813867

$369

NEC 4FGE

1024 X 768 NON-INTERLACED 15" SUPER VGA MONITOR

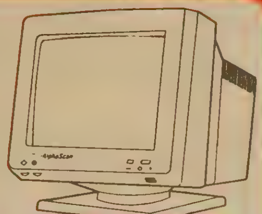


1024 X 768
Non-Interlaced
Flat Screen Monitor
4FGE #1641459

$749

SAMPO AMERICA

1024 X 768 NON-INTERLACED 17" SUPER VGA MONITOR



1024 X 768 Non-Interlaced Flat Screen
INVAR Shadow Mask 70HZ Refresh VESA
17" Large Screen SAMPO KDM-1766
#1691753

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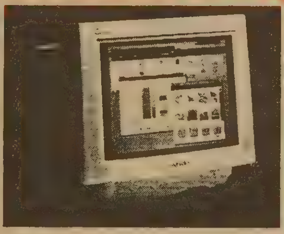
SONY 1430

1024 x 768 NON-INTERLACED 14" SVGA MONITOR



1024 X 768 72HZ
Non-Interlaced
Microprocessor
Control
Model 1430
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SONY

17" MULTISCAN TRINITRON MONITOR

1024 X 768 • .25mm Super Fine Pitch Non-Interlaced
• Digital Control
70Hz Refresh Rate
At 1024 X768
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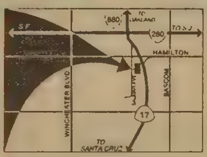
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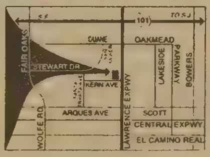
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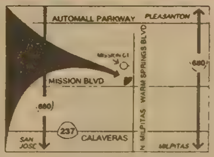
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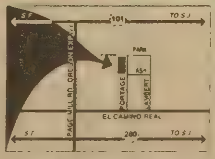
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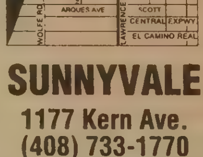
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3.5" X 1" HT • 15MS Access Time
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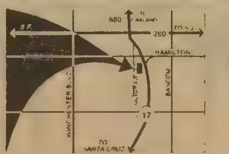
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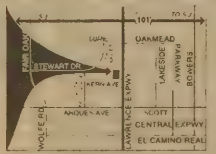
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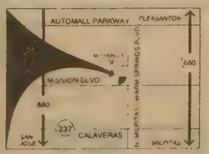
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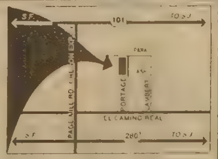
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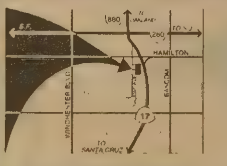
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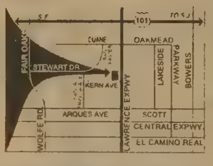
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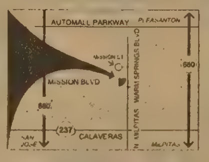
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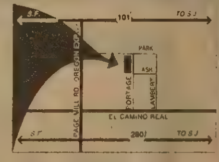
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340MB IDE HARD DRIVE

1" HT. • 15ms Access Time
345MB Formatted Capacity
7345A #1781762

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12ms Average Access • 1/2 HT.
3.5" Form Factor • 256K Buffer
CP3504 #1810657

$479

Seagate

528MB IDE HARD DRIVE

1" HT. • 12ms Access • 256K Cache ST3655A #1836279

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MICROPOLIS 1 GIGABYTE HARD DRIVE

Formatted • 10ms Access • 3.5" Formatted Capacity
Five Year Warranty • 2112A/2210A #1787768

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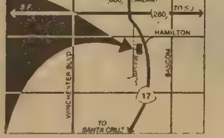
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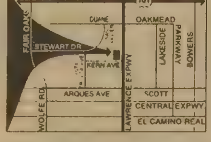
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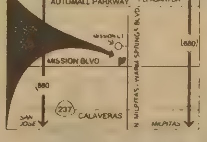
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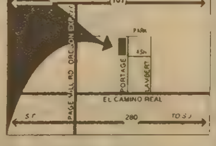
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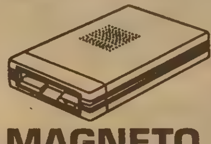

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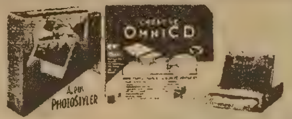
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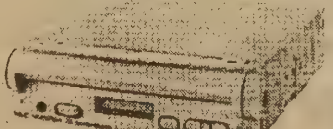

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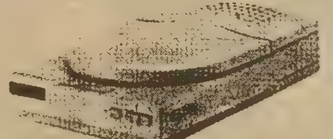

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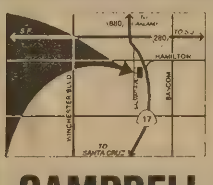
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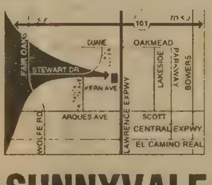
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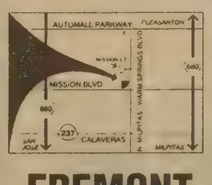
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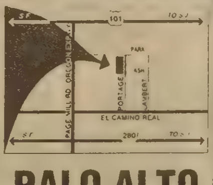
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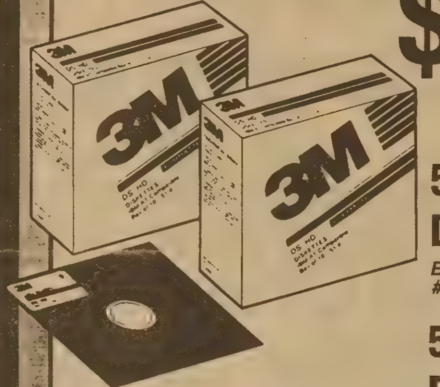
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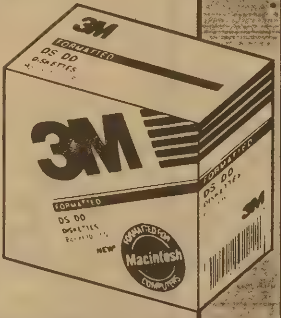
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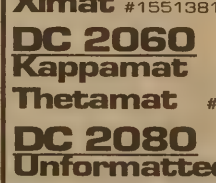
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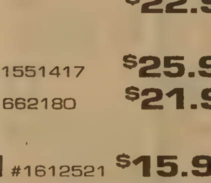
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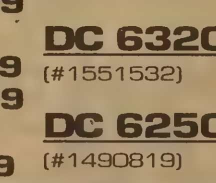
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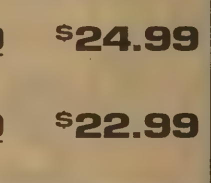
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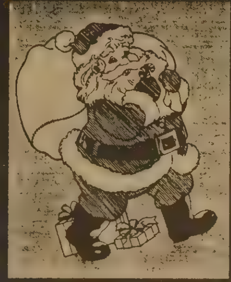

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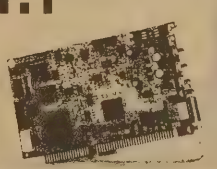

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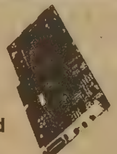

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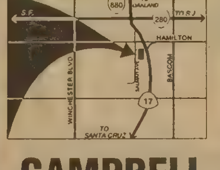
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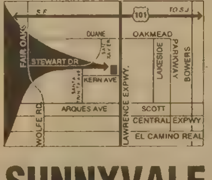
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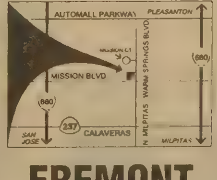
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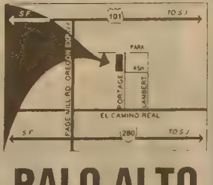
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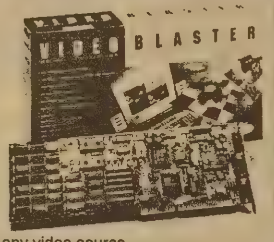
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Display full-motion video in a window, overlay computer text and graphics on video. Freeze, store, manipulate, and import images from VCR's, video discs, video cameras, or any video source. Software programable volume controls. Bundled software: Video Kit utilities including JPEG compression, Macromedia Action! Presentation package, Tempra graphics and multimedia authoring system from Mathematica.
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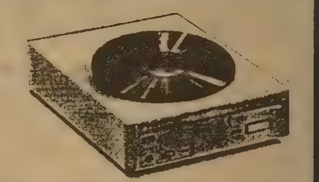

Internal Panasonic CD-ROM drive, Double, 320ms access time, 320KB data transfer rate. Multi-session Photo CD ready. Includes, mounting hardware, cables and installation video. Bundled with Multimedia Encyclopedia, The Animals, Mavis Beacon Teaches Typing, World Atlas, U.S. Atlas. Chessmaster 3000, Macromedia Action, Clip Media, Where In The World Is Carmen San Diego?, LOOM, The Secret Of Monkey Island and Secret Weapons Of The Luftwaffe software.
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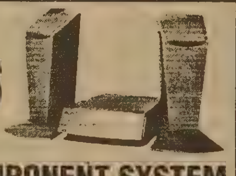

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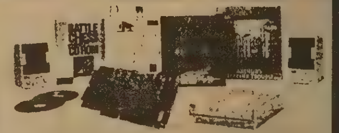
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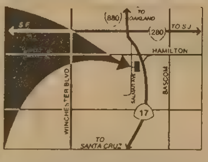
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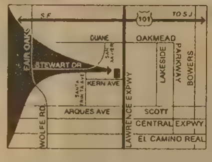
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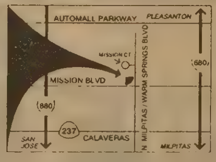
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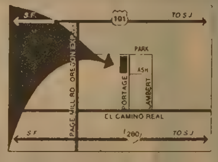
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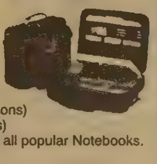

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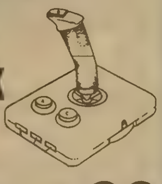

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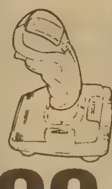

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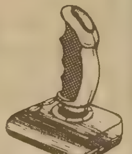

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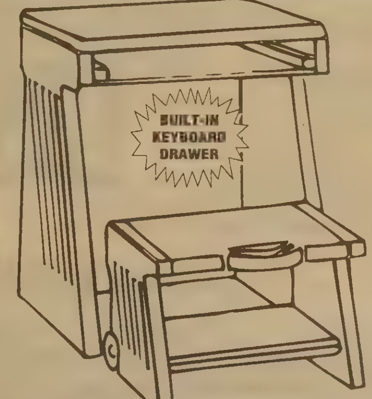

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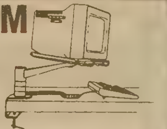

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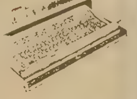

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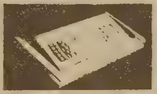

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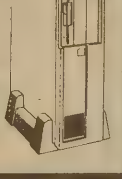

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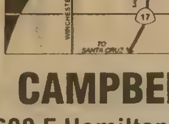

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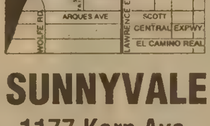

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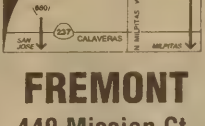

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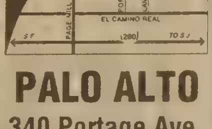

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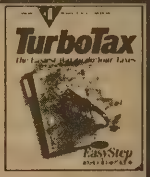
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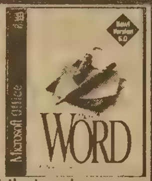
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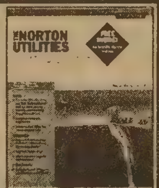
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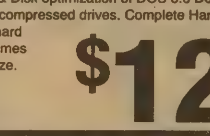
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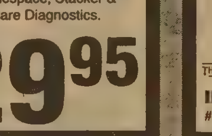
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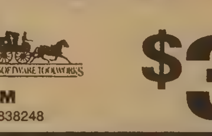
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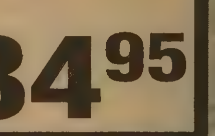
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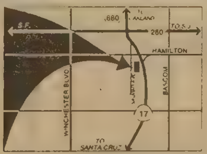

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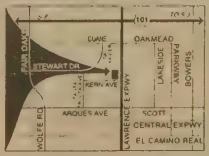

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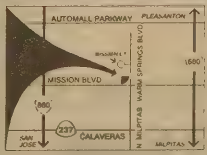

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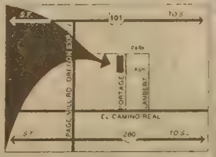

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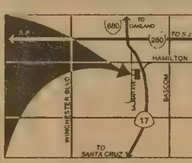

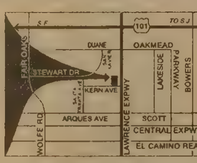

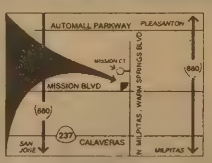

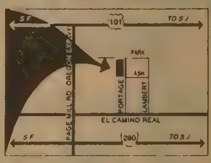

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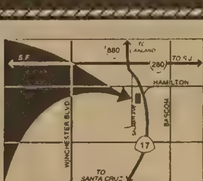
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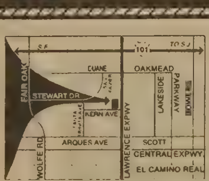
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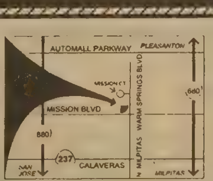
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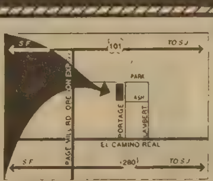
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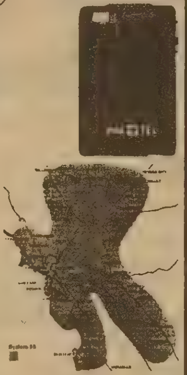

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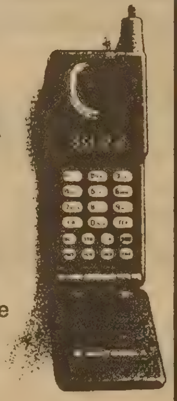

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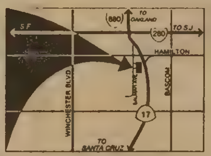
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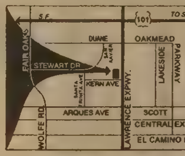
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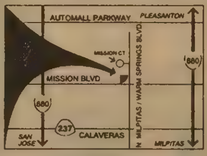
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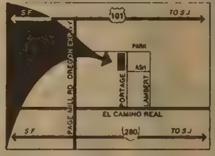
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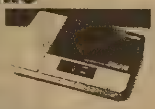

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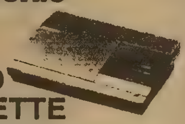

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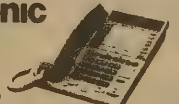
TWO LINE PHONE

A two line phone doesn't have to cost a fortune. Panasonic has the low cost answer for you. This unit has a convenient auto dialer, conference calling and much more!

$39.95

MODEL
KX-T3110
#1505313

Panasonic



2-LINE SPEAKERPHONE W/ LCD DISPLAY

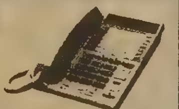
From Panasonic comes this fully featured 2-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$49.95

AVAILABLE IN BLACK OR WHITE

MODEL
KX-T3175
#1745122

Panasor



3-LINE SPEAKERPHONE WITH LCD DISPLAY

From Panasonic comes this fully featured 3-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 48-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

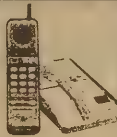
$159.95

AVAILABLE IN BLACK OR WHITE

MODEL
KX-T3185
#1768039

10 CHANNEL CORDLESS PHONES

Panasonic



10 CHANNEL CORDLESS PHONE

Most cordless phones have a very short battery life, but this one can last up to 7 days in the standby mode! Add a flexible antenna, 10 number memory, 10 channels, paging and you have an excellent value at...

$68.95

MODEL
KX-T3710
#1511389

Panasonic

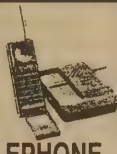
10 CHANNEL CORDLESS SPEAKER PHONE W/ LCD HANDSET DISPLAY

If you want the phone that has it all, come and see this one today! The hot new KX-T3920 from Panasonic is like having two phones in one! You can talk and dial from the base or talk back and forth thru the intercom. And it even has a 16 number Automatic dialer!

$139.95

MODEL
KX-T3920
#1768051

Panasonic



THE WORLD'S BEST CORDLESS TELEPHONE PANASONIC 900MHz

It's simply Incredible! Take this phone down the street to your neighbors for a barbeque and you will think you were calling from your own backyard! But that's not all! It's also the ultimate cordless phone for small businesses that can't afford to have anything interfere with an important call! Besides the advantages of mobility and clarity, this model has an impressive list of features including, intercom with 2-way paging, 30 channel auto scanning, auto speed dialer, private digital security and much much more! Now only...

$329

MODEL
KX-T9000
#1735370
#1677122

10 CHANNEL PHONES /ANSWERING MACHINES

Panasonic

10 CHANNEL CORDLESS SPEAKERPHONE w/ANSWERING MACHINE

This cordless answering system with sound charger technology delivers sound so clear, you will hardly believe your ears! Some of the features included are, 2- way paging, intercom, auto security system, message alert, 2-way and memo recording just to name a few. Now only...

$159.95

MODEL
KX-T 4330
#1796483

Panasonic

10 CHANNEL CORDLESS SPEAKERPHONE w/ANSWERING MACHINE AND TIME/DAY STAMP

With speakerphone, time/day stamp, 2-way page, intercom, an auto security system, message alert, 2-wayand memo recording, time check, 2massade greetings, and much more, this Panasonic cordless speakerphone with micro cassette answering machine is an excellent value at onlly.....

$179.95

MODEL
KX-T4370
#1796494

Panasonic

10 CHANNEL CORDLESS SPEAKERPHONE w/DUAL MICROCASSETTE

This new top of the line cordless dual microcassette answering system with sound charger technology delivers sound so clear, you will hardly believe your ears! Some of the features included are: 2-way paging, intercom, auto security system, message alert, 2-way and memo recording just to name a few. Now only...

$199.95

MODEL
KX-T4400
#1735370

FAX MACHINES

Panasonic

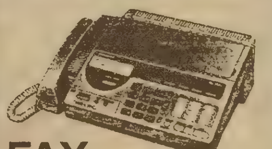
FAX MACHINE WITH ANSWERING MACHINE AND ANTI-CURL

This fully featured Fax from Panasonic comes equipped with an auto-logic answering system and anti-curl, as well as copier capabilities. It's the perfect secretary for your home or business!

MODEL
KX-F150
#1770001

$399

Panasonic



FAX MACHINE WITH PAPER CUTTER AND ANTI-CURL

This fully featured Fax from Panasonic comes equipped with an auto-logic answering system and auto paper cutter, as well as copier capabilities. It's the perfect secretary for your home or business!

MODEL
KX-F250
#1770023

$469

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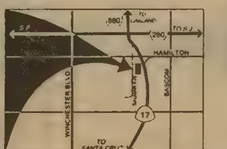

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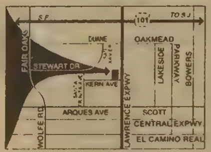

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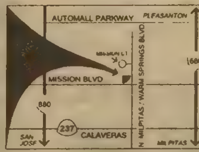

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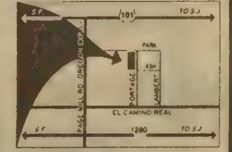

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FROM THE ORGANIZER TO THE EO

ELECTRONIC DATA MANAGEMENT FOR EVERY NEED

BUSINESS ORGANIZERS

SHARP

PERSONAL ORGANIZER

Perfect for the business person on-the-go, this compact data bank incorporates a 14 x 3 line display, built-in calendar, schedule, phone/memo, memo pad, expense, clock, anniversary, and calendar functions as well as QWERTY keyboard to simplify data entry. Once you've used this electronic marvel, you won't leave your home or office without it!

$38⁹⁵

MODEL YO-100
#1800665

CASIO

B.O.S.S. WITH 64KB MEMORY

This business organizer scheduling system comes packed with powerful functions that are practical and easy to use. The QWERTY Keyboard, telephone directory, calendar, memo function, schedule alarm, world time function, home time function, and schedule keeper will prove to be an invaluable tool in keeping your busy days in order. An excellent investment at...

$89⁹⁵

MODEL SF-5300
#1671137

SHARP

128KB BUSINESS ORGANIZER

w/WIDE SCREEN DISPLAY

In today's world, It's sometimes hard to keep track of where you've been, who you've seen, and where you're going, but now it's as easy as saying "S.H.A.R.P!" With this deluxe business organizer, you can store approximately 2,470 names and numbers or 1,740 schedule appointments (128K), but that's just the beginning, the unit's internal memory can be allocated between 10 major built-in functions: An integrated schedule and to-do list with 3 different calendar views, 3 phone/address books, business card file, memo pad, outliner, home and world time clocks, and a calculator. You can send/receive electronic mail using built-in terminal emulation software and an optional PC modem, as well as, exchange data with your PC or Mac using an optional PC interface software and cable package. A must for any business person on-the-go at only...

$199⁹⁵

MODEL YO-610
#1753444

PALMTOP COMPUTERS

PSION SERIES 3

POCKET SIZED 256KB COMPUTER

W/ BUILT-IN SPREADSHEETS

Psion has redefined the state-of-the-art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equipped with features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer, world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

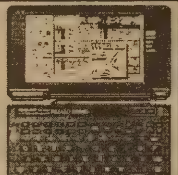
$299

MODEL SERIES 3
#1763861

SHARP

512K PERSONAL ORGANIZER

w/TOUCH SCREEN TECHNOLOGY



This Sharp Wizard lets you leave your portable computer at home but puts the power of that computer in your pocket! Here's a small sampling of the innovative features. Touch screen technology which allows you to write or draw on the screen using the Wizard pen, filer which organizes related data into folders that can be transferred to another touch screen Wizard via infared, and a true word processer with a large screen display and a keyboard that's 75% the size of a standard PC keyboard. The possibilities are endless at only...

$499

MODEL OZ-9600 II
#1797152

HEWLETT PACKARD
Authorized Dealer

1MB PALMTOP COMPUTER

w/80 x 25 FULL SCREEN MS-DOS 5.0

It's here! The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

$699

MODEL HP-100LX
#1788150

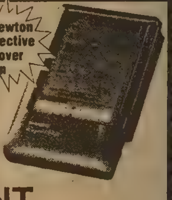
PDAs

SHARP

Newton™

The only Newton with a Protective Screen Cover built-in

EXPERT PAD PERSONAL DIGITAL ASSISTANT



Introducing Sharp's Expert Pad, a personal digital assistant. The Expert Pad combines Newton Intelligence™ and Sharp's touch-sensitive LCD technology to bring you a new type of personal information tool that learns to recognize your handwriting (either cursive or print) and remembers your work habits. The Expert Pad offers a more natural way to input information (works similar to a paper and pencil). It provides advanced, integrated organization of your information and communications capabilities.

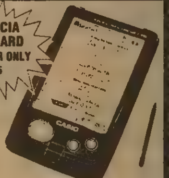
$649

MODEL PI-7000
#1826298

CASIO

PERSONAL DIGITAL ASSISTANT

1MB PCMCIA MEMORY CARD AVAILABLE FOR ONLY $149⁹⁵



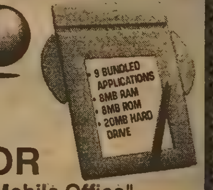
DOS COMPATIBLE W/GEOS OPERATING SYSTEM

Now an amazing device, no bigger than a small paperback book, can store your hand written notes and sketches, arrange your calendar, keep track of hundreds of phone numbers and addresses, help organize your personal finances, perform complex mathematical calculations, give you easy access to electronic mail and a host of sophisticated on-line information services. With up to 100 hours of operation from 3AA Alkaline batteries, and S-RAM or Flash card compatibility, the versatility and performance of this PDA is unmatched at only...

$649

MODEL Z-7000
#1815308

AT&T **eo**



9 BUNDLED APPLICATIONS
• 8MB RAM
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The AT&T EO Personal Communicator is the most revolutionary advancement in Communication Technology to appear in years. By combining Faxing capability (by either Phone Line using the built-in modem, or wireless using an optional cellular module), E-Mail, Data Access, and Pen-Based computing in a single 2.2 LB Handheld Unit, the AT&T EO Personal communicator is what you need today to stay ahead in business. A COMPLETE mobile solution. A solution that keeps you in touch anytime and anywhere!

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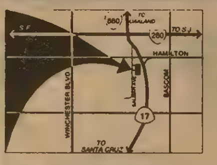

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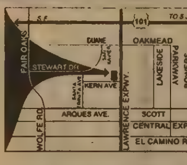

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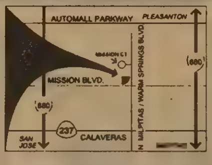

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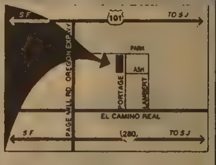

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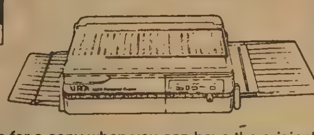


Don't settle for a copy when you can have the original... Xerox. Xerox is so confident in the quality and reliability of its copiers that it offers an exclusive 3 year warranty on all its copiers. This model offers a paper tray that stacks 40 sheets, a built-in carrying handle and removable storable paper trays, multi-copy capability which can be set from 1 to 9 copies or "C" for continuous up to 20 copies, and automatic exposure which scans documents for degrees of lightness or darkness to determining the appropriate exposure setting. An invaluable addition to any home office. At only....

$497

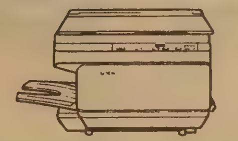
Model 5220
#1706095

DRY INK CARTRIDGE
NOT INCLUDED

XEROX
COPIER
w/REDUCTION & ENLARGEMENT

XEROX Authorized Retailer

3 YEAR Warranty TOTAL SATISFACTION GUARANTEE



If you're looking for versatility and premium performance in a copier your search is over! Xerox has designed a copier that incorporates reduction/enlargement technology enabling you to reduce a copy 75% and 95%, and enlarge to 124%, a 250 sheet paper tray which adjusts to hold memo to letter to legal size paper, built-in automatic exposure which scans documents for degrees of lightness or darkness to determine the appropriate exposure setting, multi-copy capability of 1 to 50 copies, letter and legal size copying, and manual bypass, all backed by the experts at team Xerox. Now just...

$797

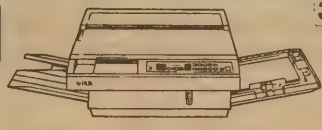
Model 5009
#1706109

DRY INK CARTRIDGE
NOT INCLUDED

XEROX
SMALL BUSINESS COPIER
w/REDUCTION & ENLARGEMENT

XEROX Authorized Retailer

3 YEAR Warranty TOTAL SATISFACTION GUARANTEE



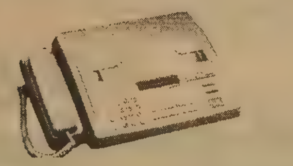
Xerox engineers have developed an affordable copier for businesses with high volume demands. The included copy cartridge is designed to deliver 18,000 copies and is guaranteed to deliver 16,000 before needing replacement. Other features include a 250 sheet paper tray, automatic exposure, photo mode to make clear copies of photographs, a graphic display which indicates the location of jammed paper, that the paper tray is empty, and that the copy cartridge is nearing the end of its life, a multi-copy button that can be set from 1 to 99 copies, dual electonic meters which displays the number of copies made by the cartridge in use and the total number of copies made by the copier, an output tray that collects up to 110 finished copies, and much more. An excellent investment at...

$1597

Model 5011
#1706121

BROTHER HAS THE FAX!

brother
We're at your side.
FAX MACHINE
W/PAPER CUTTER

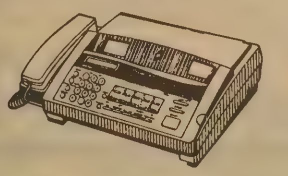


Brother's breakthrough fax machine incorporates newly developed therma plus technology which uses fax paper that feels like plain paper and reduces print fading (lasts 3 times longer than thermal paper under normal filing conditions, and you can even use a highlighter!). Other features include, 15 page document feeder, 60 station memory, 16 level grey scale, activity report, polling and much more for only...

$339

MODEL FAX-600
#1705603

brother
We're at your side.
FACSIMILE MESSAGE CENTRE
W/AUTO PAPER CUTTER

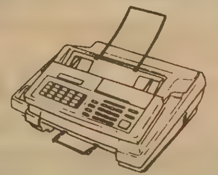


The Facsmile Message Center was designed so that the internal memory can be used for out of paper reception (up to 50 pages), as an all digital answering machine (up to 12 minutes), or you can share the memory on a first come first serve basis! Other features include 15 page auto document feeder, 32 level grayscale, 16 digit LCD display, sequential broadcasting, multi-copying with sorting, 60 station memory, Fax/Tel switch, multiple resolution transmission, and much more for only...

$469

MODEL FAX-780
#1796944

brother
We're at your side.
PLAIN PAPER FAX
W/256K MEMORY



Brother's done it again! Last year Brother broke the $400 price barrier in paper cutter Fax, and for an encore, Brother has destroyed the $799 stand alone plain paper Fax barrier with this unbelieveable value. Its 200 sheet paper cassette, 30 page auto document feeder, on-screen programming, "smoothing" enhanced image resolution, 48 digit LCD display, multiple resolution transmission, 32 level grayscale, 160 station memory, and Fax/Tel Switch makes this the best value you will find at only.....

$699

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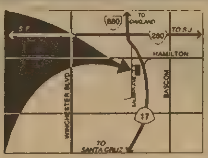

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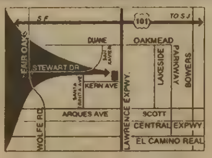

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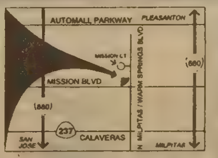

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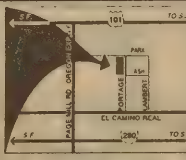

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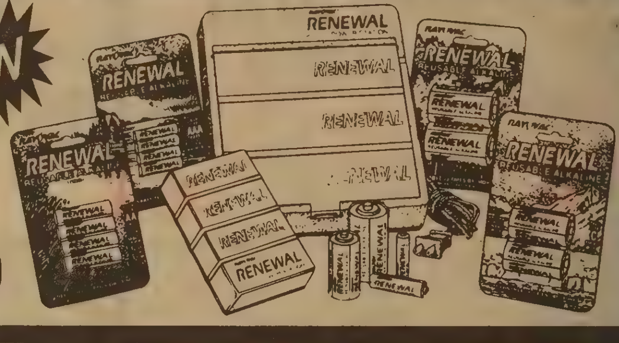
RAYOVAC® RENEWAL®
REUSABLE ALKALINE™

NEW



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Renewal is a breakthrough technology that gives you long-life alkaline power not just once, but time after time. The Renewal Power Station is NO ORDINARY BATTERY CHARGER! Built-in computer microchip technology monitors and charges each Renewal battery individually to maximize performance on every charge. Made in the U.S.A.

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715-4 #1850899

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714-2 #1850888

Tektronix

100MHz DIGITAL STORAGE OSCILLOSCOPE

With the introduction of the TDS 320, Tektronix redefines the low-cost digital oscilloscope. By sampling the signal at five times the analog bandwidth (500 mega samples per second on both channels simultaneously), you can be assured of true acquisitions, free from aliasing or other digital sampling effects. TDS 320 is the only scope in its class that can reliably acquire high speed transient or single-shot events to its full bandwidth. The TDS 320 has Dot, Dot Accumulate, Vector, and Vector Accumulate display modes—another advantage over the competiton

$2795

TDS 320
#1823251

Tektronix

100MHz ANALOG 2 CHANNEL OSCILLOSCOPE

THE TAS 465 brings an advanced level of power and reliability to general purpose scopes. It brings leading edge innovation to low-cost analog scopes with comprehensive features. Comprehensive Video Triggering simplifies triggering on complex video waveforms . With line or field (odd, even, or both) composite video selections and positive or negative sync, you can cleanly trigger on any NTSC, PAL, or SECAM video signal. The scopes' dual time base lets you zoom in on any portion of a waveform for closer examination. Auto Setup instantly delivers meaningful waveforms. Pressing the AUTOSET button automatically adjusts the horizontal, vertical, and triggering controls so that a stable signal is displayed.

$1995

TAS 465
#1823505

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Waveform observation has become an essential part of virtually every phase of a product's life. To solve the problems associated with such waveform analysis, Hitachi has provided an enhanced real time storage Oscilloscope series. 20ms/s sampling • 20Mhz Real time repetitive signal storage bandwidth • Cursors Plus much more

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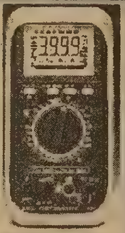

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- Generates sine, triangle, square, pulse and ramp waveforms
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$249

MODEL
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Protek

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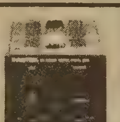

A high quality DC power supply featuring a unique owner savings design for cooler and more efficient operation. Two separate LED displays; green readout for voltage and red for current. Continuously variable with LED indicators signaling either constant voltage or constant current operational mode. Good Line, load regulation plus low ripple and noise makes this a fine compliment to any test bench.

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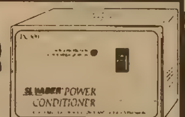

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Studies show that over 95% of computer problems are due to brownouts, surges, and damage to circuitry resulting in over-heating, permanent damage, and loss of user time. Since the actual voltage level delivered to your equipment by the utility company may be higher or lower than what is required for safe operation, It's up to you to protect your equipment. Five models feature both undervoltage and overvoltage regulation and range from 300VA to 2400VA Each model filters out unwanted noise and utilizes SL Waber's® patented 3-stage surge suppression design consisting of metal oxide varistors, gas tube, and silicon avalanche diode, all providing protection against surges up to 72,025 amps!

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MODEL PC-1800 $224.95

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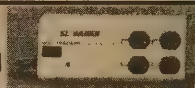
MODEL PC-300
#1791466

WAVE TRACKER™ NOISE AND SURGE FILTER



Waber's new "Wave Tracker" provides the ultimate in noise filtration and surge protection.
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- Lifetime Warranty
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WT4 #1791628

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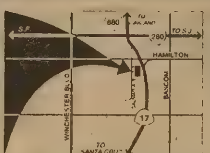

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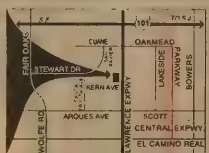

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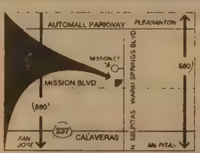

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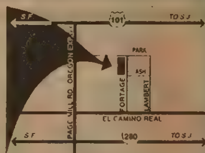

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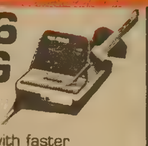

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MODEL MV-915

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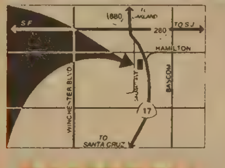

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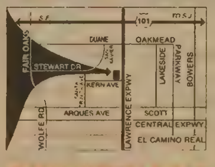

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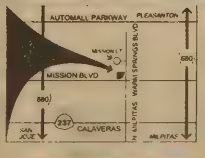

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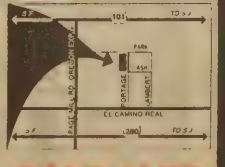

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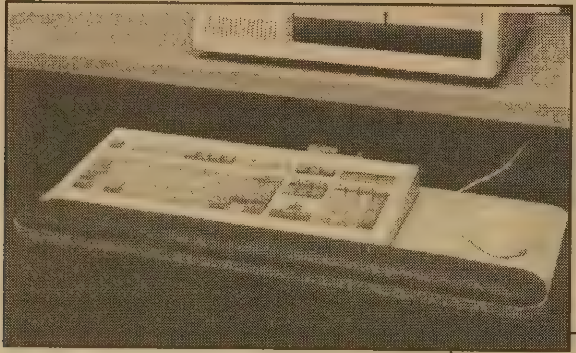

Clockwise: Combo-Platforms by Work Rite; Leather Diskette Holders from Browning & Drum; Tame Your PC; Screenies monitor frames

boards, greeting cards, and calendars. The selection of styles is enormous. Screenies come in sizes for standard displays (13", 14", and 15") and for the Classic Mac size. (Standard sizes, $11.95; Classic Mac size, $9.95) Screenies, 18971 Sonoma Hwy., Sonoma, CA 95476. (707)939-6060.

TAME YOUR PC

Tame Your PC is a video guide to personal computing that helps new and novice users become computer literate. The video instructs viewers on almost one hundred subjects ranging from backing up to DOS commands to installing software. Tame Your PC includes a supplemental disk with an interactive tutorial, diagnostic software, and a menu system. ($49.95) Just Push Play Videos, Inc., 424 Rocklin Rd., Suite 8, Rocklin, CA 95677. 1-800-434-7500.

screenies
The Original Computer Screen Frame

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COMBO-PLATFORMS

Combo-Platforms are wrist rests with a keyboard tray that includes a surface for using the mouse. With Combo-Platforms, the mouse and keyboard rest at the same elevation. The wrist rest also extends out to the end of the mouse surface to provide wrist support for mouse use. Combo-Platforms are designed to prevent repetitive motion injuries such as carpal tunnel syndrome. The different sizes fit inside or attach to adjustable keyboard platforms from most manufacturers. ($65 to $95 depending on size and material) Work Rite, 830 Sweetser Ave., #B, Novato, CA 94945. (415)898-8977.

BOOKS

THE MULTIMEDIA DIRECTORY

The first edition of *The Multimedia Directory* profiles hundres of active multimedia companies based in the United States and Canada. The majority of the companies listed are software producers. The remaining companies are either hardware producers, software publishers, interactive television networks, or Hollywood entertainment firms with interactive/multimedia divisions. The Directory is expanded, updated, and published every six months. Each listing contains: Company name, addresses, telephone and fax numbers, product titles, personnel names and titles, who's supporting what platforms, and who specializes in what markets. ($49.95) The Carronage Group, 717 S. Cochran Ave., #9, PO Box 36157, Los Angeles, CA 90036. (213)935-7600.

CONNECTING TO THE INTERNET: AN O'REILLY BUYER'S GUIDE

Connecting to the Internet, by Internet veteran Susan Estrada, is the first guide to show users how to assess their needs so that they can determine the kind of Internet service that is best for them. The book begins with a discussion of how the Internet works, network performance, who is using the Internet, and how you can use your Internet connection. It also describes how to find a local access provider and evaluate the services they offer. The book closes with appendices listing public access service providers in the US, Canada, and internationally. To help readers make the right decision, *Connecting to the Internet* provides checklists for evaluating their Internet needs, choosing a network provider, and deciding on dialup and dedicated line connections. ($15.95) O'Reilly & Associates, Inc., 103 Morris St., Suite A, Sebastopol, CA 95472. 1-800-998-9938. Email: order@ora.com.

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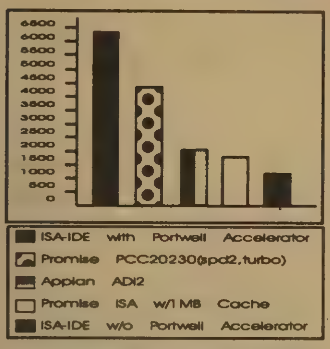

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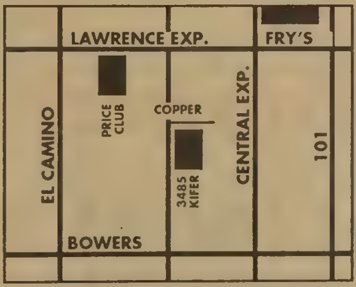

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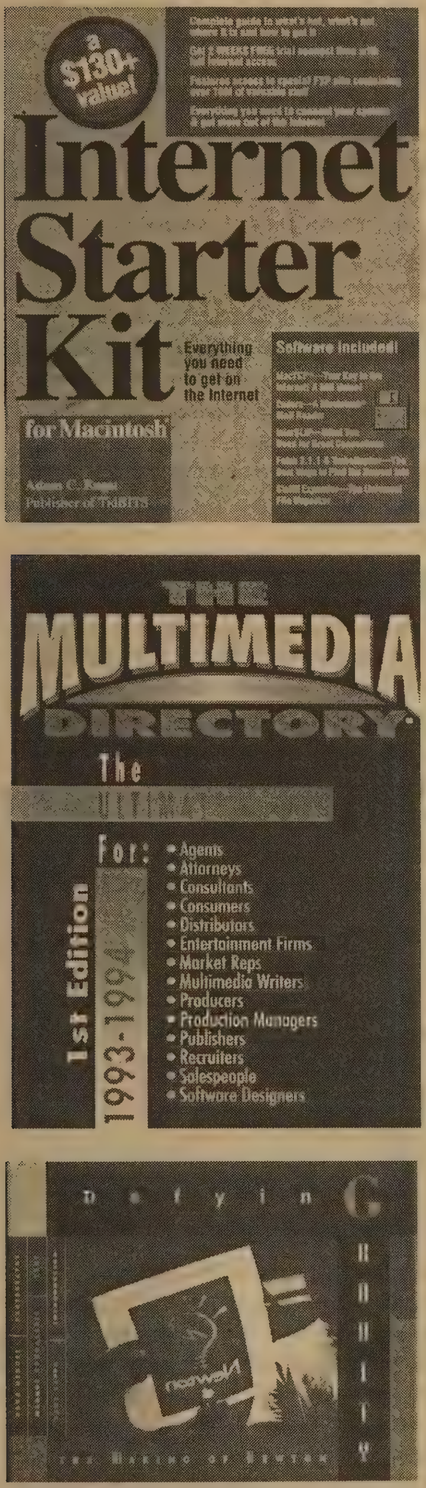
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Defying G
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Top: *The Internet Starter Kit for the Macintosh*, **by Adam C. Engst; Middle:** *The Multimedia Directory* **from The Carronage Group; Bottom:** *Defying Gravity: The Making of Newton* **by Doug Menuez and Markos Kounalakis**

INTERNET STARTER KIT FOR THE MACINTOSH

The *Internet Starter Kit for the Macintosh*, by Adam C. Engst, covers all guidelines for connecting your Macintosh to the Internet and how to get the most out of it. It is packaged with a disk that includes the Eudora mail reader, InterSLIP for modem connections, Fetch 2.1.1 and TurboGopher for finding new information, and StuffIt Expander, a universal file unpacker. It also includes a free copy of MacTCP software. The book comes with a free trial connection to the Internet for two weeks. At the end of the trial period, you can sign up for regular Internet access at a discount through Northwest Nexus in Seattle, Washington. ($29.92 book/disk set) Hayden Books, 201 W. 103rd St., Indianapolis, IN 46290. 1-800-428-5331.

DEFYING GRAVITY: THE MAKING OF NEWTON

Defying Gravity documents the creation of Newton, Apple Computer's new portable, pen-based, hand-held computer. The book chronicles both the human drama of the Apple team's ambitious effort and the process by which the idea was born, translated into a product, and sold in the competitive marketplace. Given unrestricted access and complete editorial control by Apple, photojournalist Doug Menuez and *Newsweek*/NBC correspondent Markos Kounalakis worked for two years on the 192-page book, which contains 140 photographs. ($29.95) Beyond Words Publishing, Inc., 13950 NW Pumpkin Ridge Rd., Hillsboro, OR 97123. (503)647-5109

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Super Art with SuperPaint 3.5, by Evelyn Alemanni, is for experienced SuperPaint artists who want to know more about the latest version of the program then they can learn from the user's guide. Filled with nearly two hundred quality SuperPaint images and screen illustrations, this power-user's handbook demonstrates step by step how to scan full-color graphics into SuperPaint with TWAIN; use QuickTime movie support; use pressure-sensitive tools to create gradients and textures; work with the latest plug-ins; customize the toolbox; create text effects and design custom fonts; and incorporate v3.5's new templates and textures into you graphics. ($19.95) TAB Books, Blue Ridge Summit, PA 17294-0850. 1-800-233-1128.

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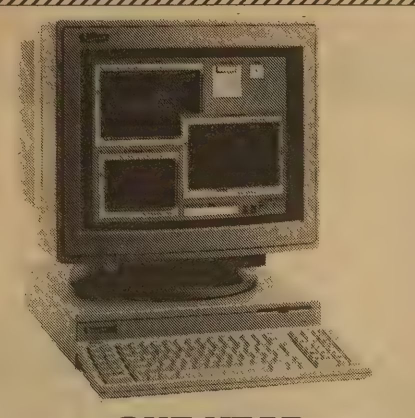

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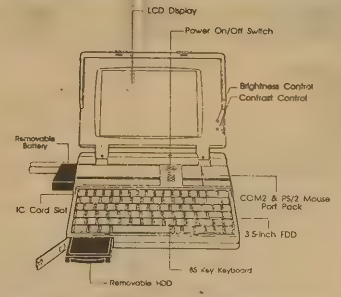

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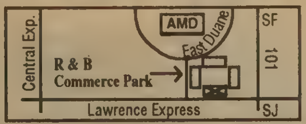

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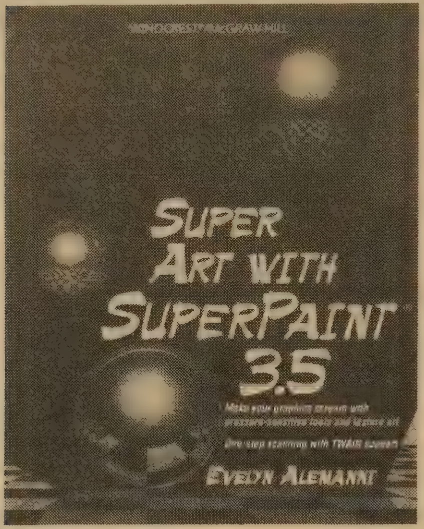
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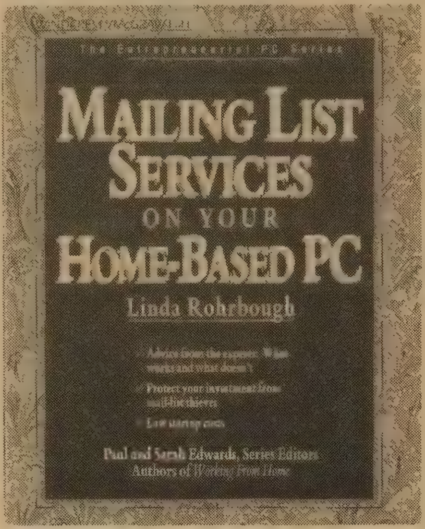
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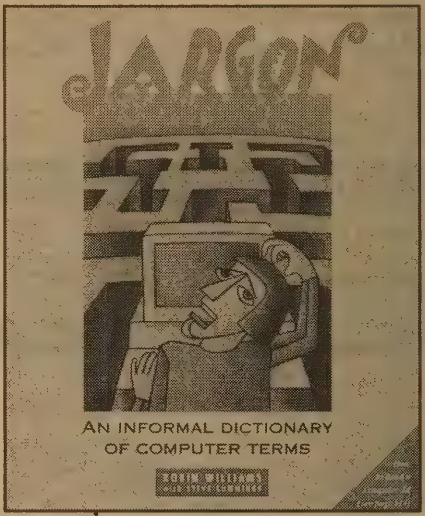
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Continued on page 200

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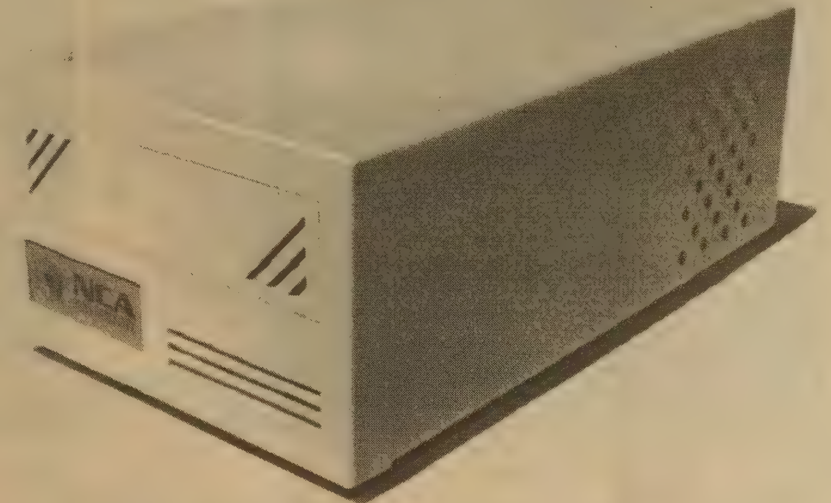

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2.0Gb	Micropolis	11ms	5Yr	$2099
2.0Gb	Fujitsu	12ms	5Yr	$1699
2.0Gb	HP	11.5ms	5Yr	$1999
2.0Gb	**DEC**	**12ms**	**5Yr**	**$1499**
3.0Gb	Micropolis	11ms	5Yr	$2699
2.9Gb	Seagate	11ms	5Yr	$2499
3.5Gb	DEC	11.5ms	5Yr	$2899
4.0Gb	IBM	11ms	5Yr	$3899

Combo SCSI Devices
Custom Configurations
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Barracuda III

External
Non-Fixed SCSI Devices

SCSI BACKUP:

SIZE(UPTO)	MAKE	MODEL	TYPE	PRICE
250Mb	**WangTek**	**5150ES**	**1/4"**	**$379**
250Mb	Archive	2150S	1/4"	$449
525Mb	Archive	2525S	1/4"	$599
1.3Gb	Archive	2750S	1/4"	$899
2.0Gb	Archive	4540NT	4mm	$1149
4.0Gb	Archive	4324NT	4mm	$1299
2.2Gb	Exabyte	EXB8200	8mm	$1799
2.2Gb	Exabyte	EXB8205	8mm	$1749
5.0Gb	Exabyte	EXB8500	8mm	$2649
5.0Gb	Exabyte	EXB8505	8mm	$2599
2.0Gb	HP	35470	4mm	$1099
8.0Gb	HP	35480	4mm	$1199
2.0Gb	WangDat	3100	4mm	$1099
8.0Gb	WangDat	3200	4mm	$1199

MAC Backup Software	*add $ 79*
NovaBack for PC or WIN	*add $ 99*
Novell NLM for 250users	*add $449*

EXTERNAL SCSI CD ROMs:

MAKE	MODEL	ACCESS	TRANSFER	PRICE
TOSHIBA	3401B	200ms	330KB	$429
NEC	84-1	265ms	330Kb	$449
PANASONIC	532	290ms	200Kb	$449
CHINON	535	280ms	300Kb	$489
TEXEL	5028	265ms	300Kb	$415
PIONEER	604X	300ms	612Kb	$1199
TEAC	CD-50	265ms	300Kb	$419

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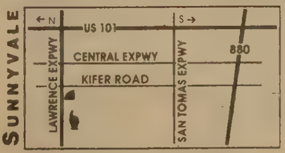

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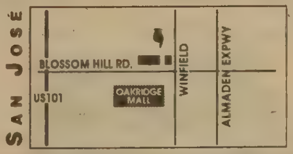

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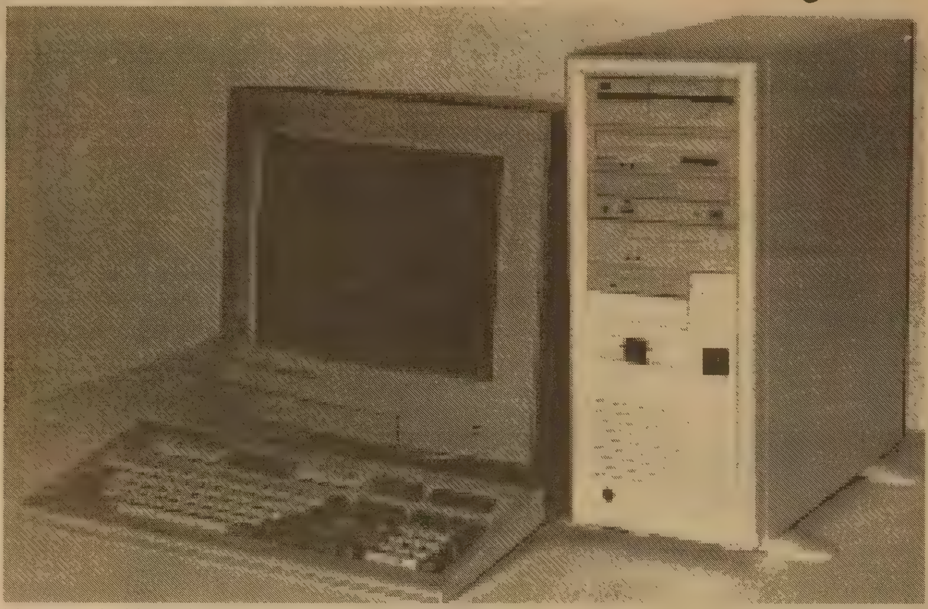

Monitor and additional accessories shown are not included.

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Mini Tower System

- AMD 386DX-40MHz
- 128K Cache (upto 256K)
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- IDE Controller 2FD/2HD
- I/O: 2 serial, 1 Parallel, 1 Game
- 101 Mitsumi Keyboard
- Clock & Calender
- 0MB RAM (up to 32MB)

(Not Pictured)

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Based on NICE™ *motherboard*

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Mid Tower System

MADE IN THE USA

- NICE 486DX EISA/ISA/VESA board
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- 0MB up to 128MB (30-Pin Simms)
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- MED Tower 250W UL Special Case
- TEAC 1.44 or 1.2
- Mitsumi 101 Keyboard
- IDE with I/O controller
- 256K Cache upto 1MB

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$469

486SLC-2 /50MHz VESA

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- Alaris Motherboard, Manufactured by IBM
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- 2 Local Bus 32-Bit Slots
- 7 16-Bit Slots, 1 8-Bit Slot
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- Medium Tower with 250W UL power Supply
- TEAC Floppy Drive 1.2 or 1.44
- IDE Controller 2FD/2HD
- I/O: 2 serial, 1 Parallel, 1 Game
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- TEAC Floppy Drive 1.2 or 1.44
- 101 Mitsumi Keyboard
- IDE Controller 2FD/2HD
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- 1 Year Warranty on Parts & Labor

Alexis 433VL

$589

486DX-33MHz VESA

MED TOWER SYSTEM

Alexis 450VL

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MED TOWER SYSTEM

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486DX-66MHz VESA

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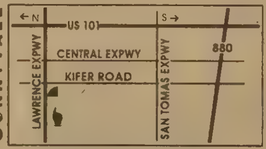

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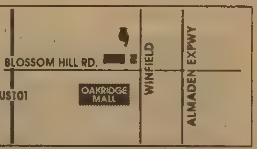

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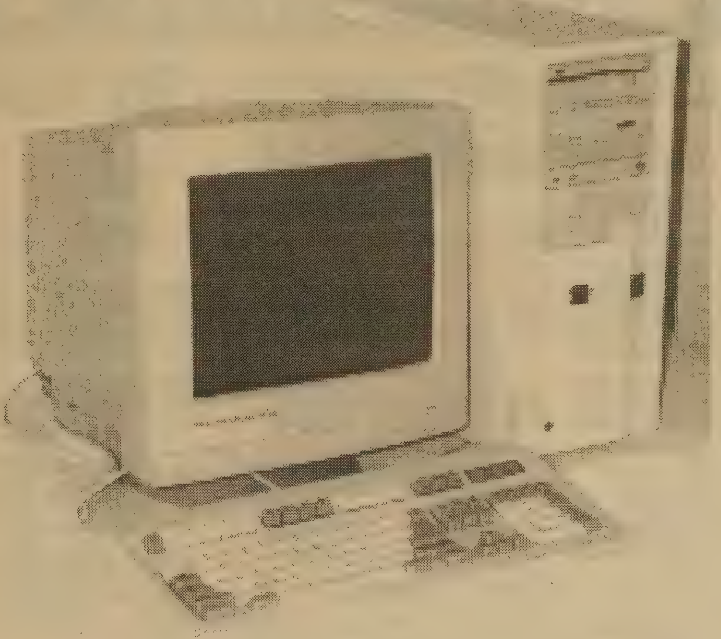

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- Medium Tower Case
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486DX33 System $899
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Based On:

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intel inside

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- Buffered VESA Local Bus Slots
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- ZIF Expansion Slots
- 256K Cache
- 2FD / 2HD I/O Card
- Teac 1.44 or 1.2M Floppy Drive
- Focus 8000 Extended Keyboard
- Medium Tower
- 250W UL Power Supply
- CPU Heat Sink
- AMIDiag 4.0 Diagnostic Package Software

486DX33 System....$1169
486DX50 System....$1369
486DX/2-66 System .$1399

Alexis-IV

486EISA/VLB Med Tower System

Based On:

AMI Enterprise IV Board

intel inside

- Seven EISA Bus Slot
- Two VESA Local Bus Slots
- ZIF Expansion Slots
- On Board I/O
- 2FD / 2HD Card
- Teac 1.44 or 1.2M Floppy Drive
- Focus 8000 Extended Keyboard
- Medium Tower
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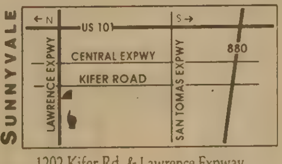

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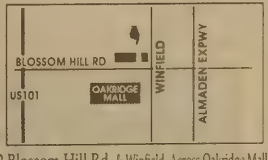

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- 3.5"X1" LOW PROFILE
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540MB	CP30540	256K	12ms	3.5X1"	$529	$639
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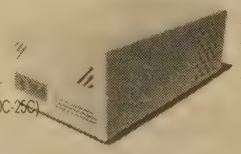

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DB-50 TO SCSI-II	$39.99
DB-50 TO DB-50	$39.99
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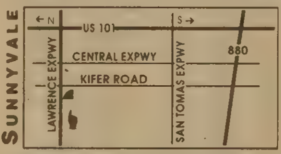

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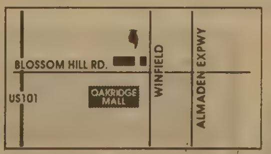

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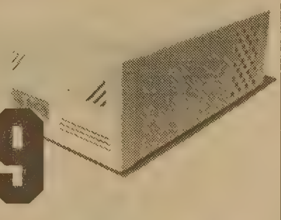

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127MB	ELS127A	32K	17ms	3.5X1"	$169
170MB	ELS170A	32K	17ms	3.5X1"	$179
240MB	LPS240A	256K	*Fast*	3.5X1"	$229
270MB	LPS270A	256K	*Fast*	3.5X1"	$279
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256MB	GLS256S		16ms	2.5"	$379

CAPACITY	M/N	CACHE	SPEED	SIZE	INTERNAL	EXTERNAL
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127MB	ELS127S	32K	17ms	3.5X1"	$189	$309
170MB	ELS170S	32K	17ms	3.5X1"	$199	$329
240MB	**LPS240S**	**256K**	***Fast***	**3.5X1"**	**$269**	**$369**
270MB	LPS270S	256K	*Fast*	3.5X1"	$Call	$Call
525MB	LPS525	512K	*10ms*	3.5"X1"	$549	$669
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341MB	ST3390A	64K	12ms	3.5X1"	$298
452MB	ST3550A	256K	12ms	3.5X1"	$449

SCSI

CAPACITY	M/N	CACHE	SPEED	SIZE	INTERNAL	EXTERNAL
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456MB	ST3550N	256K	12ms	3.5X1"	$559	$679
525MB	ST3600N	256K	10.5ms	3.5X1"	$679	$799
1.05GB	ST11200N	256K	10.5ms	3.5"	$949	$1059
1.0GB	**ST31200N**	**256K**	**9ms**	**3.5"x1"**	**$1089**	**$1199**
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1.9GB	ST42100N	256K	12.9ms	FH	$1489	$1689
2.1GB	ST42400N	256K	11ms	FH	$1749	$1949
2.1GB	ST12400N	256K	9ms	3.5"	$CALL	$2029
2.9GB	ST43400N	512K	10ms	FH	$2299	$2499
2.9GB	ST43401N	512K	East-Wide SCSI-II	5.25	$2499	$2699

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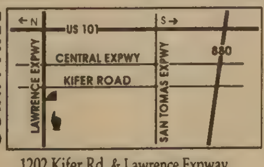

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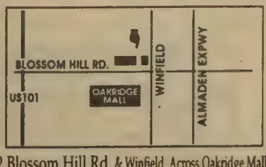

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SCSI

	MODEL	RPM	SPEED	SIZE	INTERNAL	EXTERNAL
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1.0GB	MC2210	5400	10ms	3.5"	......$969	......$1089
1.0GB	MC2210AV	Audio/Visual			........$1099	.....$1229
1.0GB	MC1598	3600	15ms	FH	.......$969	......$1169
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1.75GB	MC2217AV	Audio/Visual			........$1529	.....$1639
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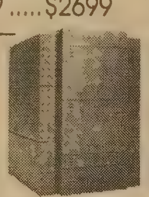

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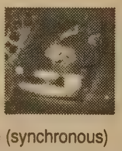

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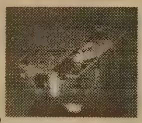

- HP C3010
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- Up to 24 Mbits/s Trans. Rate
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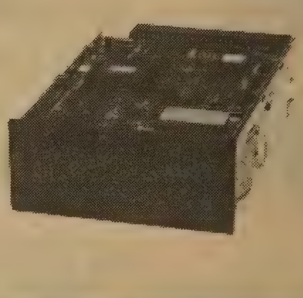

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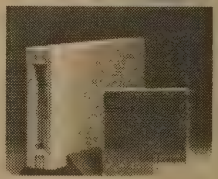

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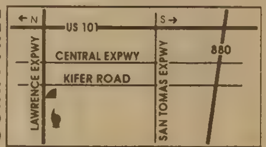

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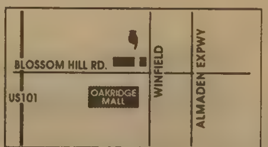

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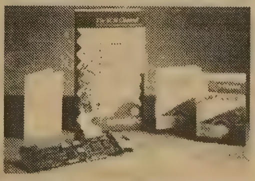

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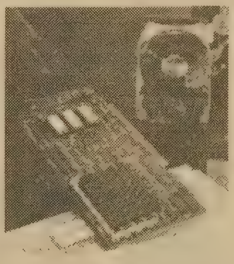

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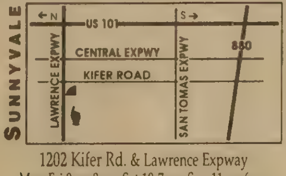

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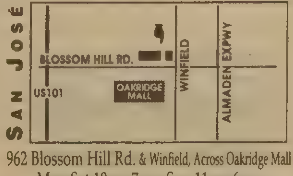

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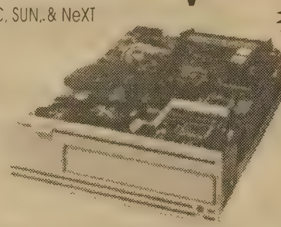

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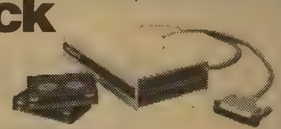

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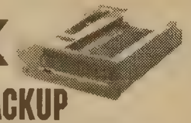

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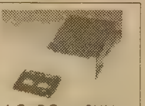

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MAXELL DC2120 FORMATTED Q80	19.99	89.99
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SONY 90M	17.95	75.00
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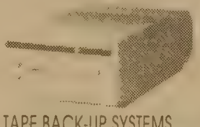

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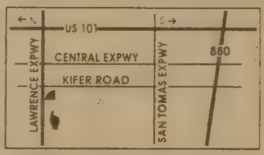

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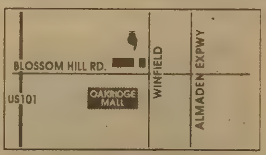

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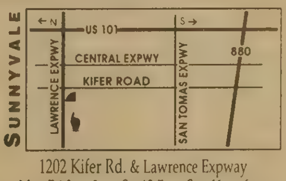

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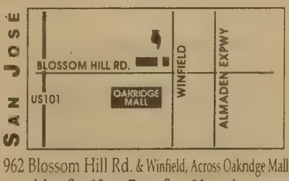

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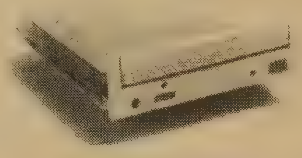

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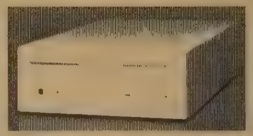

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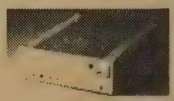

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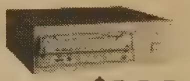

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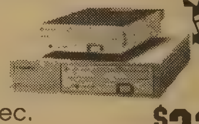

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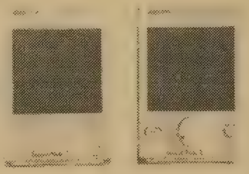

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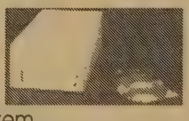

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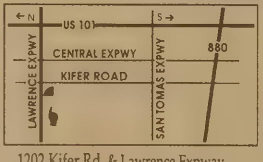

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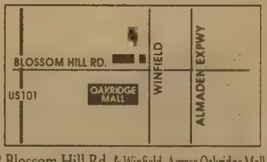

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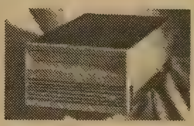

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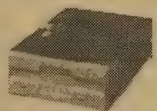

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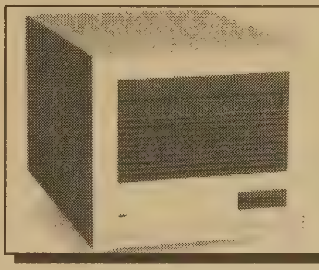

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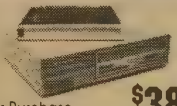

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•88MB Syquest Also Available•

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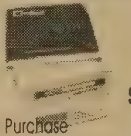

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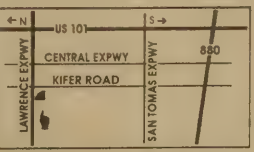

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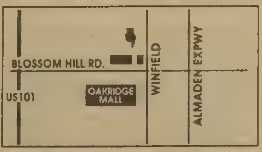

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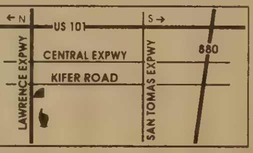

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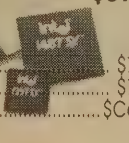

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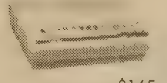

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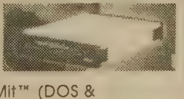

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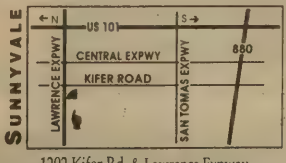

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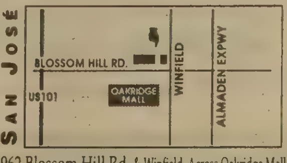

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HOLIDAY
Gift Guide

Continued from page 186

THE TAO OF APPLESCRIPT

The Tao of Apple Script: BMUG's Guide to Macintosh Scripting, by Derrick Schneider, Tim Holmes, and Hans Hansen, is the first AppleScript book available on the market. It is for anyone who has ever wanted to customize applications, automate tedious tasks, or create a program without having to learn a programming language. It provides instructional and humorous follow-along examples of how to completely change the way in which users accomplish Macintosh computing. The accompanying disk contains all of the software needed to use AppleScript technology, including the AppleScript extension, QuickTime 1.6, ScriptEditor, ScriptFinder Liaison 1.0, and thirteen scripting additions. ($24.95) Hayden Books, 201 W. 103rd St., Indianapolis, IN 46290. 1-800-428-5331.

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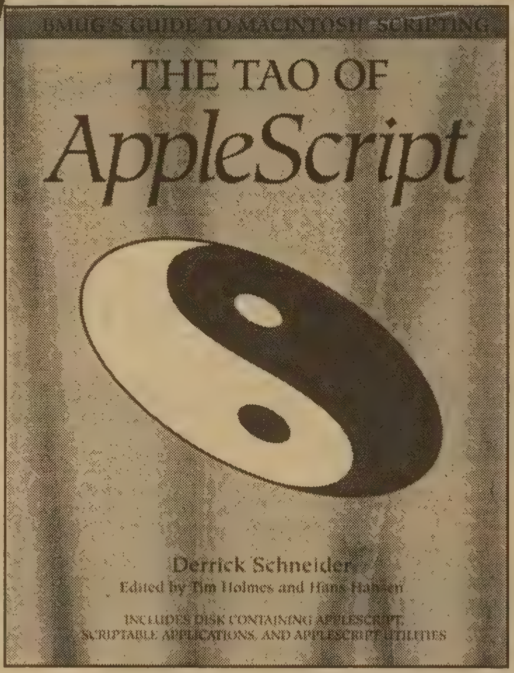
To help solve the problems of addressing email over the Internet, O'Reilly & Associates has published a completely updated and lower-priced edition of *!%@:: A Directory of Electronic Mail Addressing & Networks*, by Donnalyn Frey and Rick Adams. This book presents a general introduction to the concept of email addressing, followed by a detailed reference section that describes how to address email messages to be sent from one network to another. It also includes a directory of hundreds of second- and third-tier domains so users can address individual sites within a network. In addition to updating information about networks listed in previous editions, this new edition provides information about new networks in the Commonwealth of Independent States, Eastern Europe, Africa, and South America. ($24.95) O'Reilly & Associates, Inc., 103 A Morris St., Sebastopol, CA 95472. 1-800-998-9938. Email: order@ora.com.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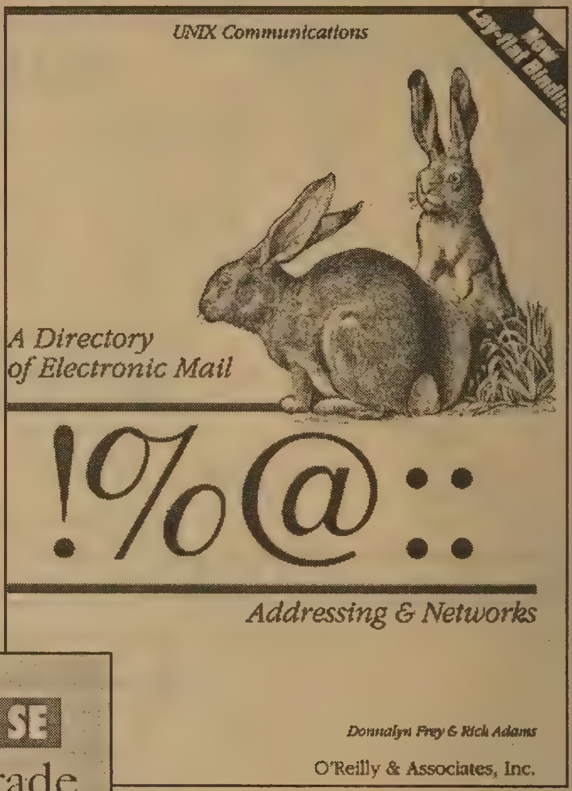
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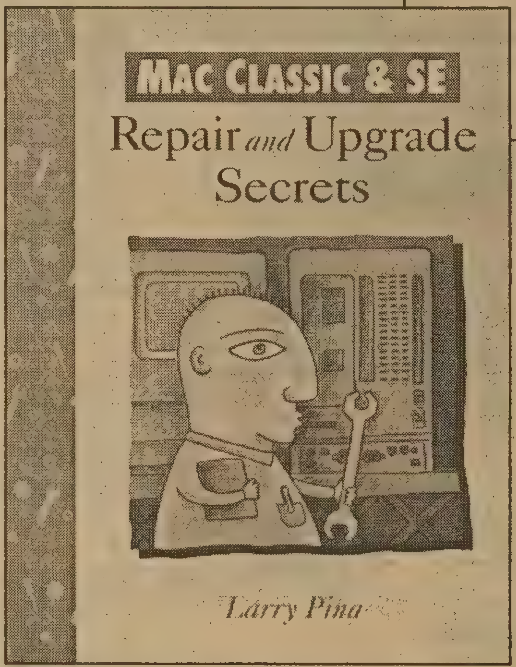
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Clockwise: The Tao of AppleScript; Directory of Electronic Mail; Mac Repair and Upgrades

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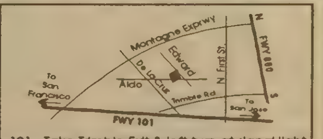

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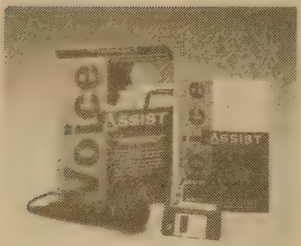
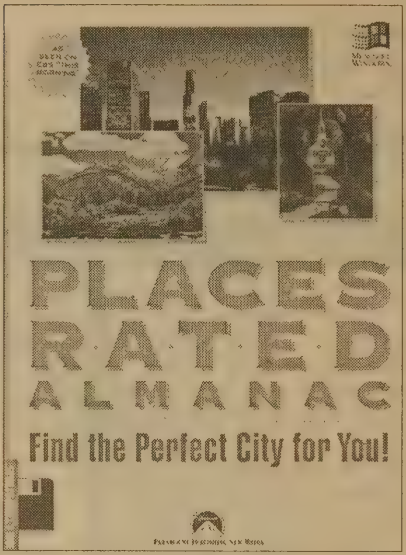
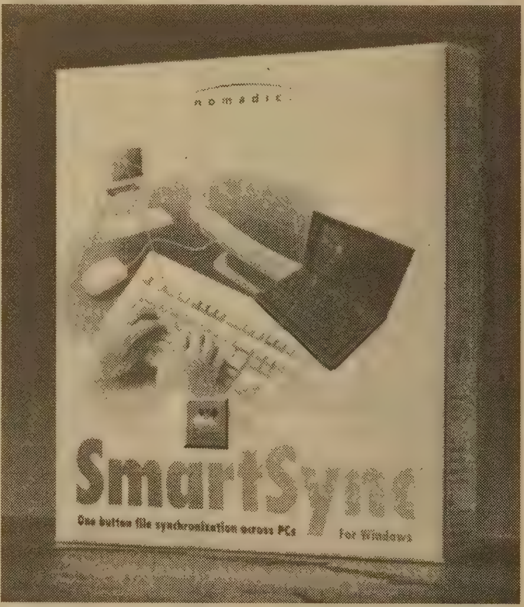
CREATIVE VOICE ASSIST



As an addition to your mouse and keyboard, Voice Assist lets you use your voice to communicate with your PC. After customizing your Windows applications you can activate personalized commands with this user-friendly, speech recognition tool. Voice Assist features quick response, accurate work recognition, and provides simple verbal representation of complex macros. It supports up to 256 individual users, requiring minimal disk space. A single user file typically occupies about 500K of memory. The microphone is included and is compatible with most sound cards including the SoundBlaster series. ($99.95) Creative Labs, Inc., 1901 McCarthy Blvd., Milpitas, CA 95035. 1-800-998-5227.





Clockwise from above: Creative Voice Assist speech recognition tool; Places Rated Almanac; Musicware Piano for Windows; Norton Speedrive from Symantec; SmartSync from Nomadic Systems, Inc.

NORTON SPEEDRIVE

Norton Speedrive is a PC disk cache that accelerates game information access and enhances game animation and speech. Norton Speedrive increases Windows, DOS, and CD-ROM game performance by as much as 50%. The program supports all disk drives, including Syquest, Bernoulli, and all popular compressed drives. It can be installed either as a device driver or a TSR (terminate-stay-resident). ($99) Symantec Corp., 10201 Torre Ave., Cupertino, CA 95014-2132. 1-800-441-7234.

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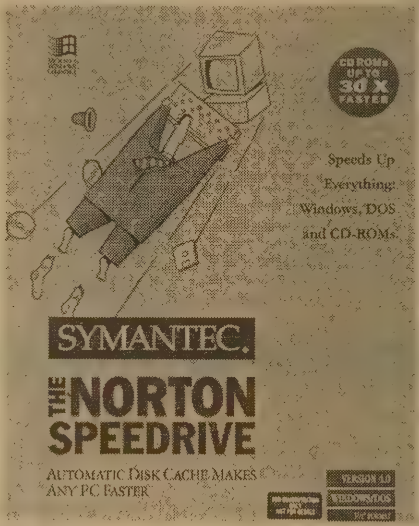
Musicware Piano combines proven piano teaching methods with the power and ease of Windows, taking users step-by-step from the basics to an advanced level of two-hand playing competency. Used in conjunction with a MIDI piano keyboard (with four octaves or more) and a sound card with built-in MIDI support, Musicware Piano provides an entire year's worth of piano lessons—more than two hundred in all. Providing instruction in sight reading, ear training, rhythm, and music theory fundamentals, this software package delivers on-screen help and regularly tests and individually tracks a student's progress. ($129.95) Musicware, Inc., 8654 154th Ave. N.E., Redmond, WA 98052. (206)881-9797.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Running under Windows, Digital Morph allows users to create morphs, specially altered digital images. HSC Digital Morph can morph full-motion images in .AVI or .FLC files and warp images by manipulating the grid points to which images must conform. The software features painting tools which can blend colors together and smooth out jagged edges or facial wrinkles. It also has cutout, animation, and resizing tools. For home users of HSC Digital Morph who may not own a scanner, HSC will scan four 5" x 7" images free of charge for each registered user before February 15, 1994. ($149) HSC Software, Inc., 1661

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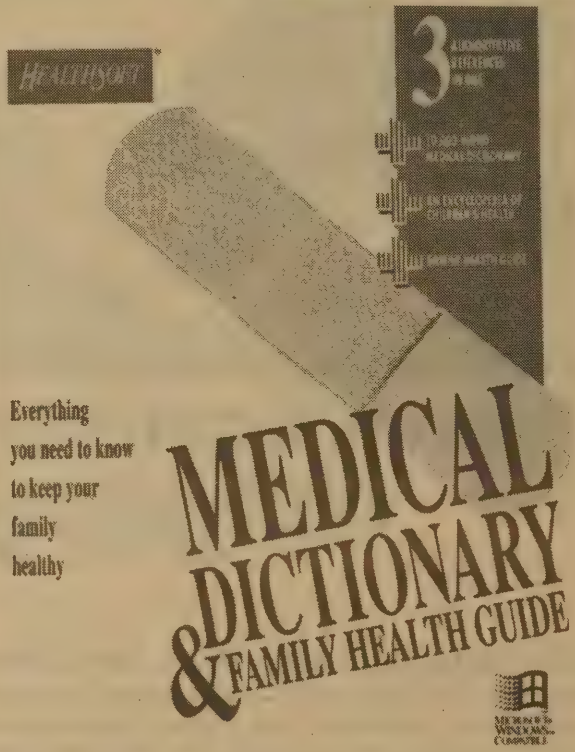
Clockwise: Claris Imaginiaria, Medical Dictionary, Expert Landscape for Windows, Claris Imaginaria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HealthSoft licensed the best-selling *The New American Medical Dictionary and Health Manual* by Dr. Robert Rothenberg and *The New American Encyclopedia of Children's Health* written by a panel of trusted pediatricians from Penguin Books USA. This electronic version integrates these three print health references into one easy-to-use, interactive Windows software package. The program includes a powerful search feature so users can locate information more rapidly. It allows users to find words and definitions even if the user cannot spell the word or does not know the terminology. It contains definitions for almost ten thousand medical terms, in addition to health information on poisons, antidotes, disease incubation periods, test results, current medical practices, and a Medicare Handbook. The children's section of the guide is an A–Z compendium of childhood diseases and symptoms. ($59) Great Bear Technology, Inc., 1100 Moraga Way, Moraga, CA 84556. 1-800-795-HEALTH.

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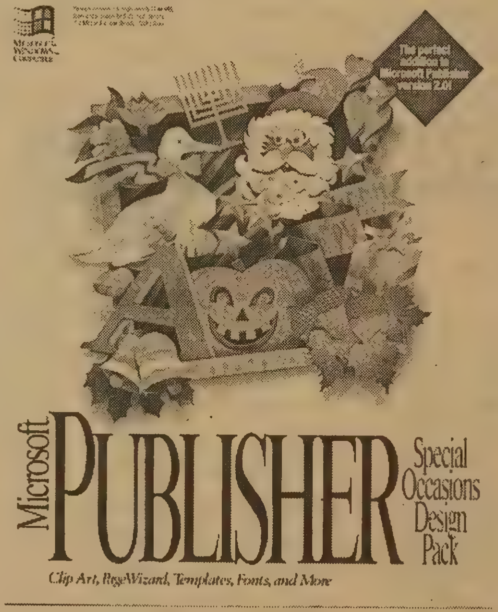
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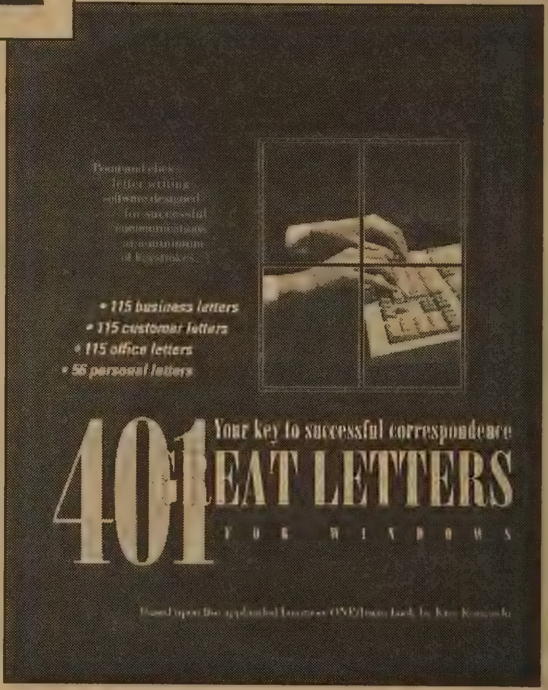

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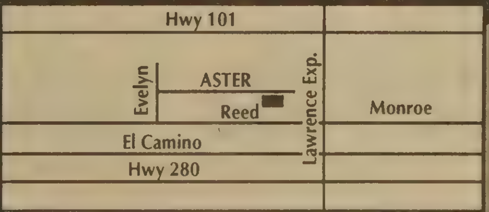

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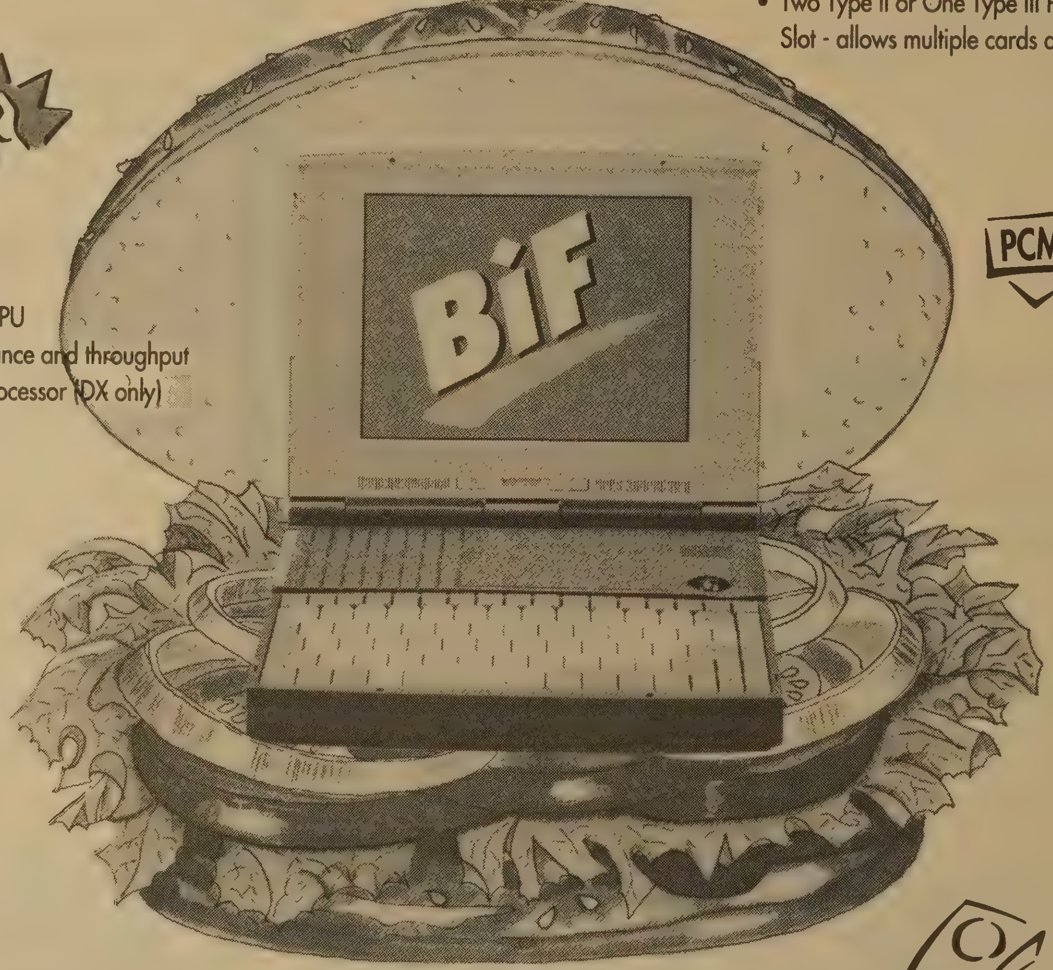

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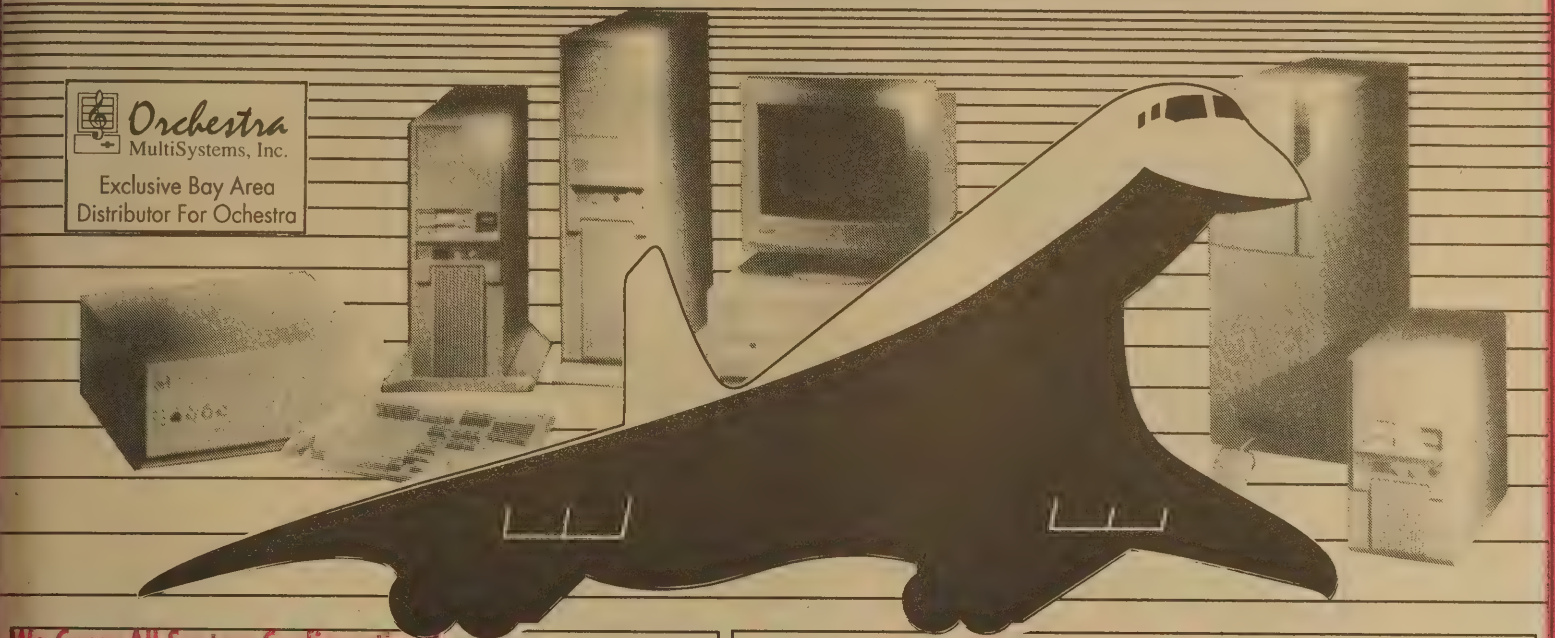

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MAG 15" .28 Non-Int SVGA	475
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NEC 15" 4FGE .28 Non-Int SVGA	695
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Viewsonic 14" 6E .28 Non-Int SVGA	290
Viewsonic 14" 5E .28 Non-Int SVGA	360
Viewsonic 15" .28 Non-Int SVGA	500
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DRIVES

Item	Price
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120MB IDE Drive	170
170MB IDE Drive	180
250MB IDE Drive	235
340MB IDE Drive	280
420MB IDE Drive	370
520MB IDE Drive	500
120MB Tape Drive	120
250MB Tape Drive w/Tape	180

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Item	Price
386DX-40 w/128K ISA	$120
486DLC-40 w/128K VLB	210
486DX-33 w/256K VLB	398
486DX2-66 w/256K VLB	598
486DX-33 w/256K VLB ZIF	428
486DX2-66 w/256K VLB ZIF	628

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IDE Cache Controller	120
VLB IDE w I/O	40
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SCSI Controller	65
Logitech Mouse	20
Logitech Mouseman Bus	75
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Toshiba 3401 CD-ROM	350
Panasonic CD562 CD-ROM	230

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Item	Price
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Sound Blaster Pro 8 bit	125
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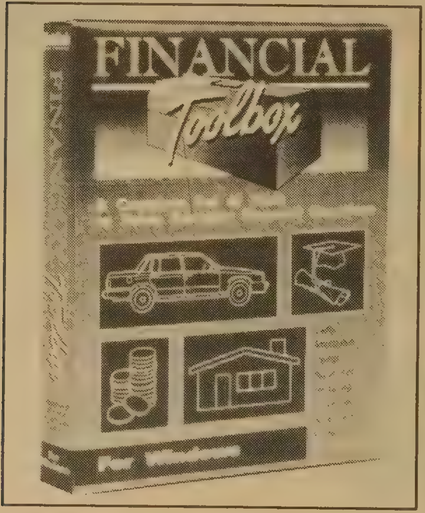
across multiple computers with a single mouse click instead of complicated scripting or macros. In addition, SmartSync reduces the cost and time of data transmission by sending only the changes made to files, rather than transferring and overwriting entire files. Using standard or cellular modems, serial or port cables, even diskettes, SmartSync allows users to schedule file updates. It prevents the loss of important data by alerting users when the same file has been updated on multiple PCs. SmartSync requires at least an IBM 386 or compatible computer running Windows 3.1 in enhanced mode. ($169.95) Nomadic Systems, Inc., 650 Castro St., Suite 410, Mountain View, CA 94041. (415)335-4310.



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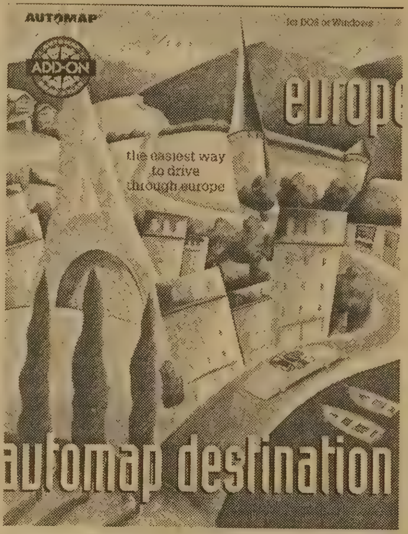

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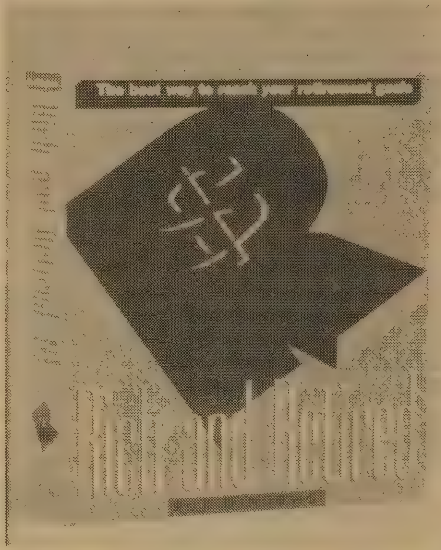
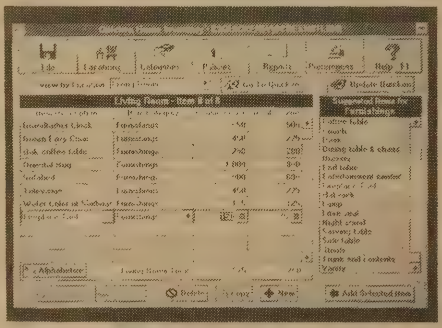
INTUIT QUICKEN COMPANION 2.0 FOR WINDOWS

Quicken Companion for Windows features Quicken Home Inventory, a fast and simple way to create and manage a personal home inventory for complete organization, insurance planning, and insurance claim backup. Companion also estimates personal taxes, instantly updates stock and mutual fund prices online, and gives users useful tips and advice about using Quicken. Home Inventory seamlessly links integration with Quicken. With the click of a button, users can instantly send their complete home inventory to Quicken for inclusion in their net worth. Using the Quicken Quotes Hotline, anyone can retrieve stock quotes and mutual fund prices via modem for $1 per minute. CompuServe basic service subscribers can use Quicken Quotes at no charge. ($34.95) Intuit, Inc., PO Box 3014, Menlo Park, CA 94026. 1-800-624-8742.





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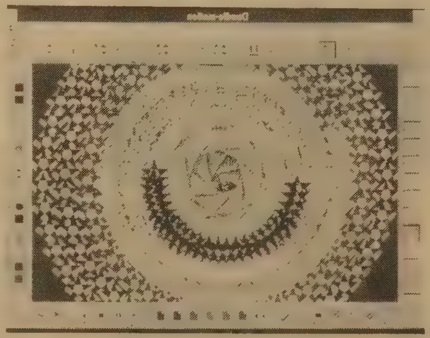

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FINANCIAL TOOLBOX

Financial Toolbox is designed to help users make decisions about interest rate and payment options and develop personal financial records. It includes a mortgage refinancing calculator, a loan analyzer with amortization charts, a savings analyzer, a payment comparison utility, a rent versus buy analyzer, and a financial goal analyzer. Financial Toolbox has the ability to quickly analyze, for example, the different aspects of any type of loan: interest rate, payment term, amount borrowed, and amount of payment. Financial Toolbox, which also has personal records and home inventory functions, is available in both Windows and MS-DOS versions. ($39.95) DataTech Software, Inc., 6360 Flank Dr., Suite 300, Harrisburg, PA 17112. (717)652-4344.

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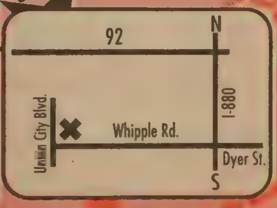

emulates familiar paper-based systems such as Daytimer and Franklin. There are also week-at-a-glance and month-at-a-glance viewing options, pop-up menus, and common edit options such as cut, copy, and paste. Appointments and to-do notes can be changed between days by drag-and-drop and distinguished by different colors. Users can link information across the calendar, phonebook, and outline sections using standard or customized templates. ($79) Arabesque Software, Inc., 2340 130th Ave. N.E., Bellevue, WA 98005-1754. (206)869-9600.

DOODLE-MATION

Doodle-mation, an electronic doodle pad, lets users doodle on their computer screen. Selecting from push-button controls, users can create arrows, stars, and hexagons; make shapes rotate, bounce, or float randomly; blend and match colors; and put their doodles to sound. Users can turn their favorite doodle patterns into a screen saver and even doodle directly on the screen saver. ($29.95) Screen Magic, Inc., 820 Florida St., San Francisco, CA 94110. (415)648-8056.

3D HOME ARCHITECT

This complete do-it-yourself Windows-based home design and remodeling program gives you a powerful tool for experimenting, visualizing and making decisions about the design process. It can assist you in tackling a kitchen remodeling job or creating a new house. 3D Home Architect contains all the necessary tools to create floorplans, including over two hundred symbols for furniture, fixtures, cabinets, electrical, openings, and more. The interactive 3-D editing feature instantly changes your 2-D floorplans when you make a change in 3-D and vice-versa. The Smart Parts Technology automatically stops you if you try to put something where it can't properly be placed. The rainbow tool allows you to experiment with various colors and shades as you create your own personal color schemes. 3D Home Architect has an easy-to-use Windows interface. ($59.95) Brøderbund Software, Inc., 500 Redwood Blvd., PO Box 6121, Novato, CA 94948-6121. 1-800-521-6263.

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If you were president, how would you change the health care system? SimHealth can be used by students, teachers, community-study groups, policy makers, and concerned citizens to evaluate current health policy and new proposals, formulate policy, and compare the US system to Canada's. You play the role of a government leader. Based on your values, you select and implement a variety of health care policies. As your policies are implemented, SimHealth presents feedback on the consequences on an individual level and in the aggregate. Does the cost of health care burden society? Do cost controls lower the quality of medical care? Designed under the supervision of expert medical economists, physicians, and communications consultants, SimHealth is a departure from traditional computer games. But it uses many of their elements—full-color graphics, animation, and sound effects—to help you grapple with real-life problems. ($39.95) Maxis, 2 Theatre Square, Orinda, CA 94563. (510)253-3736..

VIPERWRITE 2.0

ViperWrite 2.0 (formerly HyperWrite 1.0), a Windows-based hypermedia text processor, is designed to fill the need for a powerful, yet affordable and easy-to-use hypermedia word processor. In addition to standard word processing capabilities, ViperWrite includes editing tools to stylize and hyperlink characters, words or phrases to other text, graphics, audio or video files. It combines high-end processing tools with unique layering and autolinking, plus navigation tools for presentations. ViperWrite supports OLE and is compatible with other Windows-based applications. ($199. For an additional $400, developers can distribute their presentations commercially and royalty-free with a runtime license for unlimited commercial distribution) Looking Glass Software, Inc., 11222 La Cienega Blvd., Ste. 305, Inglewood, CA 90304. (310)348-8240.

MACINTOSH SOFTWARE

THE PRINT SHOP DELUXE

With The Print Shop Deluxe users can create their own personalized designs or simply choose from hundreds of ready-made layouts to create dazzling documents, from letterheads to greeting cards to banners. This software package includes more than three hundred object-ori-

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Dynamite DAT Drives!

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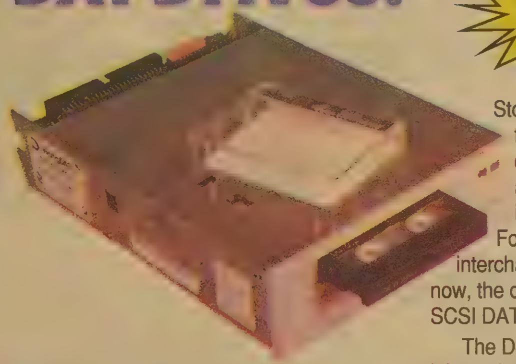

Store up to 2000 megabytes on a DAT tape the size of a matchbook! DAT drives offer unbeatable performance and reliability. DAT tapes are super inexpensive and extremely rugged. For serious backup and data interchange, DAT is the only solution. 'Til now, the only problem has been the price. SCSI DAT drives typically cost $1500 or more.

The Depot has purchased a quantity of Wangtek factory refurbished drives at unheard of prices. These drives are guaranteed to meet or beat new drive performance specifications and are available at the fraction of the cost of a new drive. Try this drive on your system. You'll be amazed at the performance and convenience DAT has to offer.

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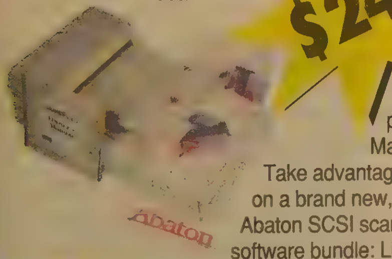
$249



Tired of typing? Disk Drive Depot makes OCR technology affordable! Abaton uses modern one-bit technology coupled with OmniType software to create the ideal document scanning package for Macintosh applications. Take advantage of our insane price on a brand new, factory sealed Abaton SCSI scanner and OCR software bundle: List Price: $995. DDD **Price: $249**! Buy now and we'll throw in a free automatic document feeder while supplies last! Call today while the limited supplies last!!

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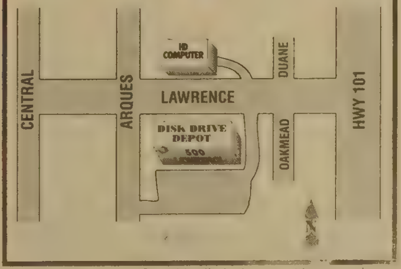

Stop in and visit our retail showroom on Lawrence Expressway, opposite from HD Computer (on the South side of the street). Our service and selection are second to none.

All drives (both new and refurbished) are backed by the Disk Drive Depot's fast turnaround warranty. Quantities limited on most items, and prices are subject to change without notice. Trademarks listed are property of their respective owners.

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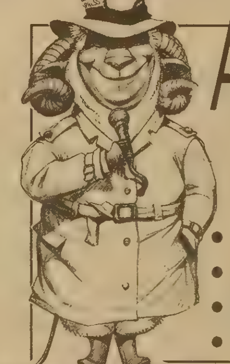
- 101 Enhanced Keyboard
- FOR OTHER OPTIONS...CALL



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Orchid Celsius VLB w/1 MB VRAM	205
Genoa VLB/1 MB	108
Trident SVGA/1 MB	58
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- VLB IDE I/O Controller
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- Mid-Tower Case w/250W P.S.
- 15" ADI Flat Screen Non-Interlace Monitor (1280x1024 .28dp)
- 101 Enhanced Keyboard
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$1709

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Includes:
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  - -Sierra King Quest

Package 2
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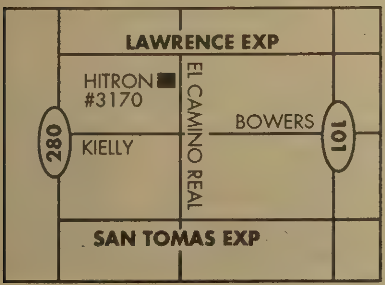

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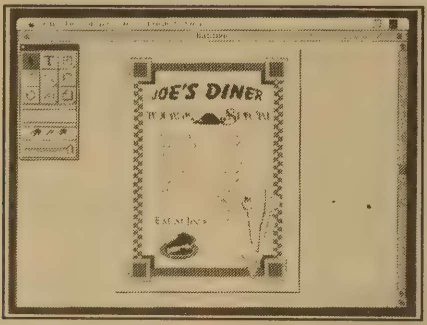
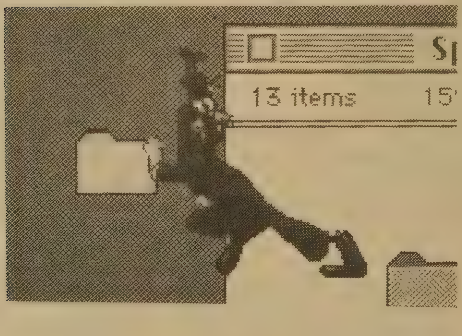


ented graphics, hundreds of layouts, and thirty TrueType fonts. Text can be shrunk, stretched, rotated, flipped, scaled, and customized into more than thirty-five hundred combinations. Graphics can be customized by adding color, shading, and other effects for just the right look. ($49.95) Brøderbund Software, Inc., 500 Redwood Blvd., PO Box 6121, Novato, CA 94948-6121. (415)382-4400.

THE DISNEY COLLECTION SCREEN SAVER

Berkeley Systems, who brought you Flying Toaster and Star Trek screen savers, now offers some of Disney's most popular animated characters, including Mickey, Donald, Goofy, Pinocchio, The Little Mermaid, and others. It features over fifteen colorful animated displays, classic Disney voices and animations, as well as screen-locking password protection, and can run all After Dark 2.0 displays. For the Macintosh, the Disney Collection requires a Mac Plus or better, 2MB of RAM with a hard drive, running System 6.0.4 or higher. A Windows version is also available. ($49.95) Berkeley Systems, Inc., 2095 Rose St., Berkeley, CA 94709. (510)540-5535.

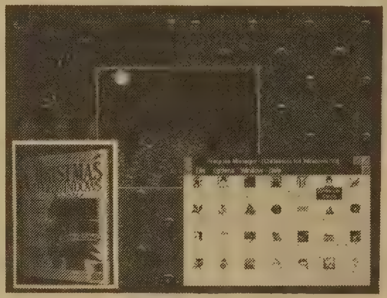


ICON GALLERY

Icon Gallery lets Macintosh users decorate their desktop by replacing the standard desktop icons with one of the largest commercial collections of tiny hand-crafted color illustrations. Users can browse through Icon Gallery's folders labeled People, Romance, Faces, Transportation, Logos, Signs, Plants and Flowers, Weapons, and more. Icon Gallery icons can be installed on desktop documents, applications, desk accessories, fonts, drives, and more. They can be pasted into the editing window of any application that supports PICTs. Icon Gallery icons also appear clearly on grayscale monitors. ($59.95) Component Software Industries Corp., PO Box 201, Rocky Hill, NJ 08553. (609)497-4501.

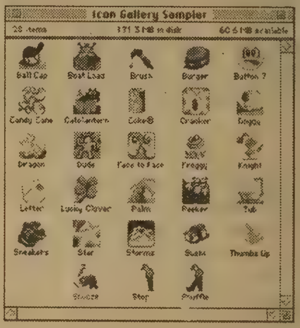
CHRISTMAS FOR MACINTOSH

Christmas for Windows and Christmas for Macintosh software packages feature screen savers with winter scenes, elves, and new year celebrations, and plays continuous carols using a sound card or internal PC speaker. Users can replace their regular window's icons with festive holiday icons that play a short clip of music while the software is loading. Christmas for Windows includes three Christmas games, six holiday wallpapers, and two holiday fonts. Users can send an electronic Christmas greeting card, which consists of the winter scene screen saver and a customized message, to a friend or coworker. ($14.95) TDA Help!, 720 132nd St. SW, Suite 202, Everett, WA 98204. (206)742-4145.



ALDUS GALLERY EFFECTS: CLASSIC ART, V3

Aldus Gallery Effects: Classic Art, Volume 3 offers a well-balanced collection of filters that automatically transform scanned photographs and other bitmapped images into dramatic artwork. Volume 3 showcases several classic painting and drawing methods: the Sumi-é effect replicates an ancient Japanese brush-painting technique; Ink Outlines is a fast, scribbled drawing style. Each effect can be applied singly or in concert with other effects. Plus all effects will be available as plug-in filters that users can apply either from within the accompanying Gallery Effects 1.5 application or can be integrated into a host program, such as Aldus PhotoStyler, Adobe Photoshop, Fractal Design Printer, and others. Gallery Effects is available for both Macintosh and Windows computers. ($199) Aldus Corp., Consumer Division, 5120 Shoreham Place, San Diego, CA 92122. (619)558-6000.



ENERGIZER BUNNY SCREEN SAVER

The Eveready Battery's rabbit with rhythm is now available for the Macintosh. As the screen darkents, the rabbit marches resolutely through hare-raising adventures on land, sea, and air—with users able to select or randomize bunnies that parade, parachute, gunsling through the Old West, and snorkel with sharks. Hear the multimedia rabbit thump a big bass drum and listen to digitized sound clips from several ads, complete with announcer. Along with password protection, the hare will make surprise guest appearances, leaping in, unannounced across your spreadsheet, database, or text file. This package includes a collection of wallpapers, such as bunny glyphics, bubble bath bunnies, patriotic

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	128K	677	842
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	128K	627	792
486DX-33 (NICE) (2 Slots Local Bus, 3 EISA, 2 ISA)	256K	500	665
	128K	490	655
ISA			
486DX2-66 (2 Slots Local Bus)	256K	637	802
	128K	627	792
486DX-50 (2 Slots Local Bus)	256K	593	758
	128K	583	748
486DX-33 (2 Slots Local Bus)	256K	450	615
	128K	440	605

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486DX-33 (GENOA) (3 Slots Local Bus)	256K	385	550
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	128K	503	668
486DX-33 (3 Slots Local Bus)	256K	370	535
	128K	360	525
486DX-50 (2 Slots Local Bus)	256K	508	673
	128K	498	663
486DX-33 (2 Slots Local Bus)	256K	365	530
	128K	355	520
386-40	128K	110	275
386-SX 40		73	240

BASIC SYSTEM INCLUDES: 486/386/286 Motherboard • 486/386/286 CPU • 1 MB RAM • 101 Keyboard • 1.2 MB or 1.44 MB Floppy Drive • Baby AT or Mini Tower Case with Power Supply • 2FDD & 2HDD Controller Card w/Cable

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MOTHERBOARDS W/O CPU

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486DX-33/50 Mini EISA 256K (NICE) (2 Slots LB, 3 EISA, 5 ISA, Overdrive)	248
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4486DX2-66/DX-50/DX-33 (2 Slots Local Bus (Genoa) w/256K	125
486DX2-66, DX-50, DX-33 (3 Slots Local Bus (AIR) w/256K	150
w/128K	145
486DX2-66/DX-50/DX-33 (2 Slots Local Bus, 2-72 Pin, 8-36 Pin Memory Slots) w/256K	130
486DX2-66, DX-50, DX-33 (2 Slots Local Bus) w/256K	115
w/128K	104
IBM	
IBM 486SLC V-33/66 w/387-25 w/CPU	$274
IBM 486SLC V-25/50 w/387-25 w/CPU	245
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386-SX40 w/CPU	73

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7213A 213 MB 15ms	189
7245A 245 MB 15ms	212
SAMSUNG	
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250 MB 16ms	199
WESTERN DIGITAL	
212 MB	$190
340 MB	265

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Logitech Mouseman	35
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SVGA 1024x768 1 MB	54
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Genoa 8500 VL	95
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SCSI Ultra 24F (EISA) Future Domain	340
SCSI DTC 3290 AS (EISA)	380
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SCSI Adaptec 1542C	182
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Promise IDE Cache Controller 512K-16MB	108
DC-600B IDE Cache	95
DC-680 VL IDE	140
DC-800 SCSI II Cache	192
DC-620B EISA IDE Cache	140

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NC 2000 16 Bit	$43
NC 2000 Combo	47
Arcnet LANCard	
8-Bit Star Topology	$40
16-Bit Star Topology	56
8-Bit Bus/Star/BNC/UTP	43
16-Bit Bus/Star/Coax/UTP	43
8-Port Coax Active Hub	112
4-Port External Passive Hub	14
MODEM CARD/FAXES	
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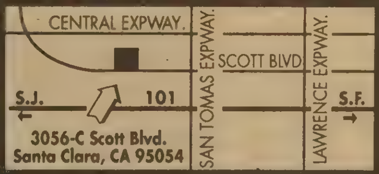

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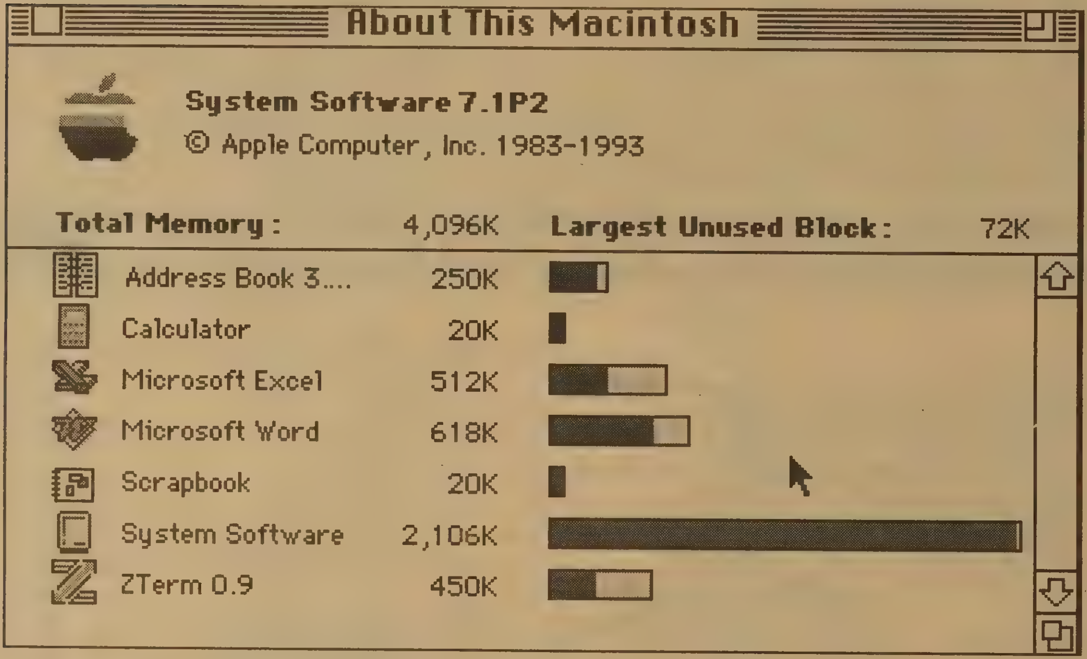
Gift Guide

bunnies, and Santa E.B. Claus. ($29.95) PC Dynamics, Inc., 31332 Via Colinas, #102, Westlake Village, CA 91362. 1-800-888-1741.

OPTIMEM

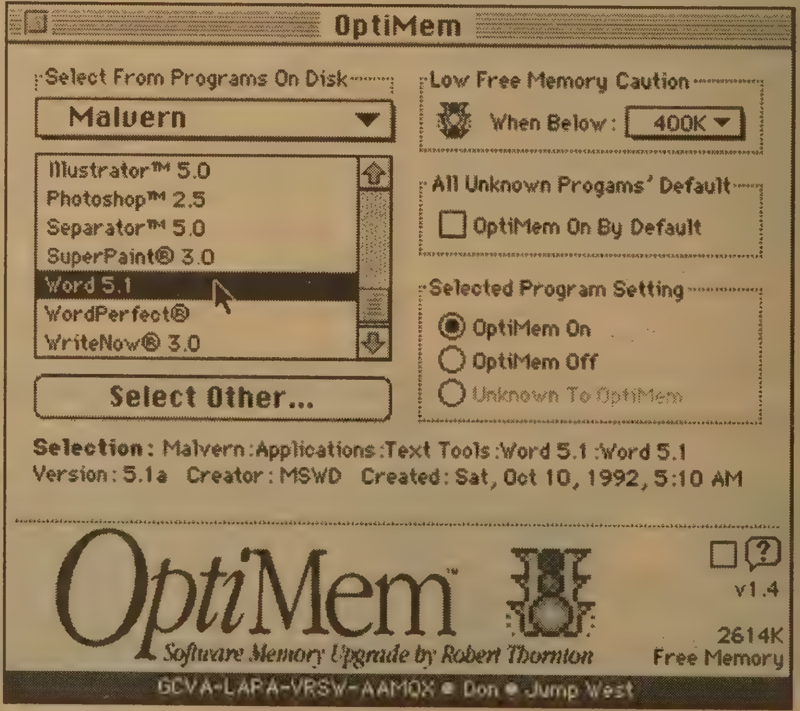
OptiMem is a System 7 extension that optimizes the way Macs use memory. It opens applications into minimum-sized blocks of memory rather than into the large, fixed partitions that your Mac normally uses. And, instead of locking away a significant reserve in each application's private memory block, OptiMem manages the reserve memory in a common pool. This offers a new option for owners of Macs that are limited to 4MB of RAM, such as Pluses, SEs, and Classics, as well as anyone who has a PowerBook and wants to avoid either expensive hardware upgrades or battery-draining virtual memory. ($129) Jump Development Group, 1228 Malvern Ave., Pittsburg, PA 15217. (412)681-2692. Email: jumpdevgrp@aol.com.


About This Macintosh

System Software 7.1P2
© Apple Computer, Inc. 1983-1993

Total Memory : 4,096K   Largest Unused Block : 72K

Address Book 3....	250K	
Calculator	20K	
Microsoft Excel	512K	
Microsoft Word	618K	
Scrapbook	20K	
System Software	2,106K	
ZTerm 0.9	450K	


OptiMem
Select From Programs On Disk
Malvern
Select Other...
Low Free Memory Caution
All Unknown Progams' Default
Selected Program Setting
OptiMem
Software Memory Upgrade by Robert Thornton

Illustrator™ 5.0
Photoshop™ 2.5
Separator™ 5.0
SuperPaint® 3.0
Word 5.1
WordPerfect®
WriteNow® 3.0

When Below : 400K

☐ OptiMem On By Default

● OptiMem On
○ OptiMem Off
○ Unknown To OptiMem

Selection : Malvern :Applications :Text Tools :Word 5.1 :Word 5.1
Version : 5.1a   Creator : MSWD   Created : Sat, Oct 10, 1992, 5:10 AM

v1.4

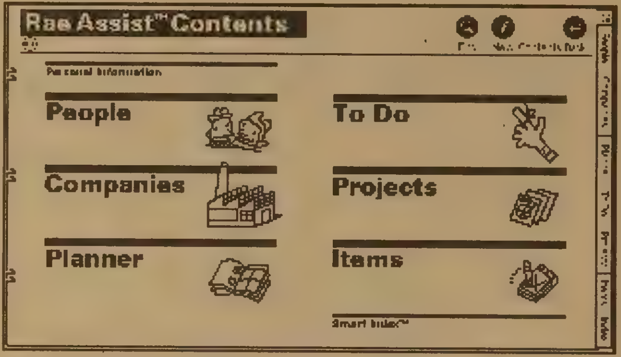
2614K Free Memory

GCVA-LAPA-VRSW-AAMOX • Don • Jump West

Above and Left: Optimem

RAE ASSIST

Rae Assist, a personal information assistant software for PowerBook and Macintosh, helps users manage their business and personal contacts, schedule, projects, and notes in one convenient application. Users can sort, link, list, and print out information, such as notes, pictures, meeting minutes, electronic mail, contracts, phone messages, and even envelopes. The product features tags to emphasize important information, navigational commands such as Find and Recent, and import and export functions. Rae Assist can import existing contacts and dates from other personal information software programs. ($199) Rae Technology, 19672 Stevens Creek Blvd., Suite 195, Cupertino, CA 95014. (408)725-2850.


Rae Assist™ Contents
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Companies
Projects
Planner
Items
Smart Index™

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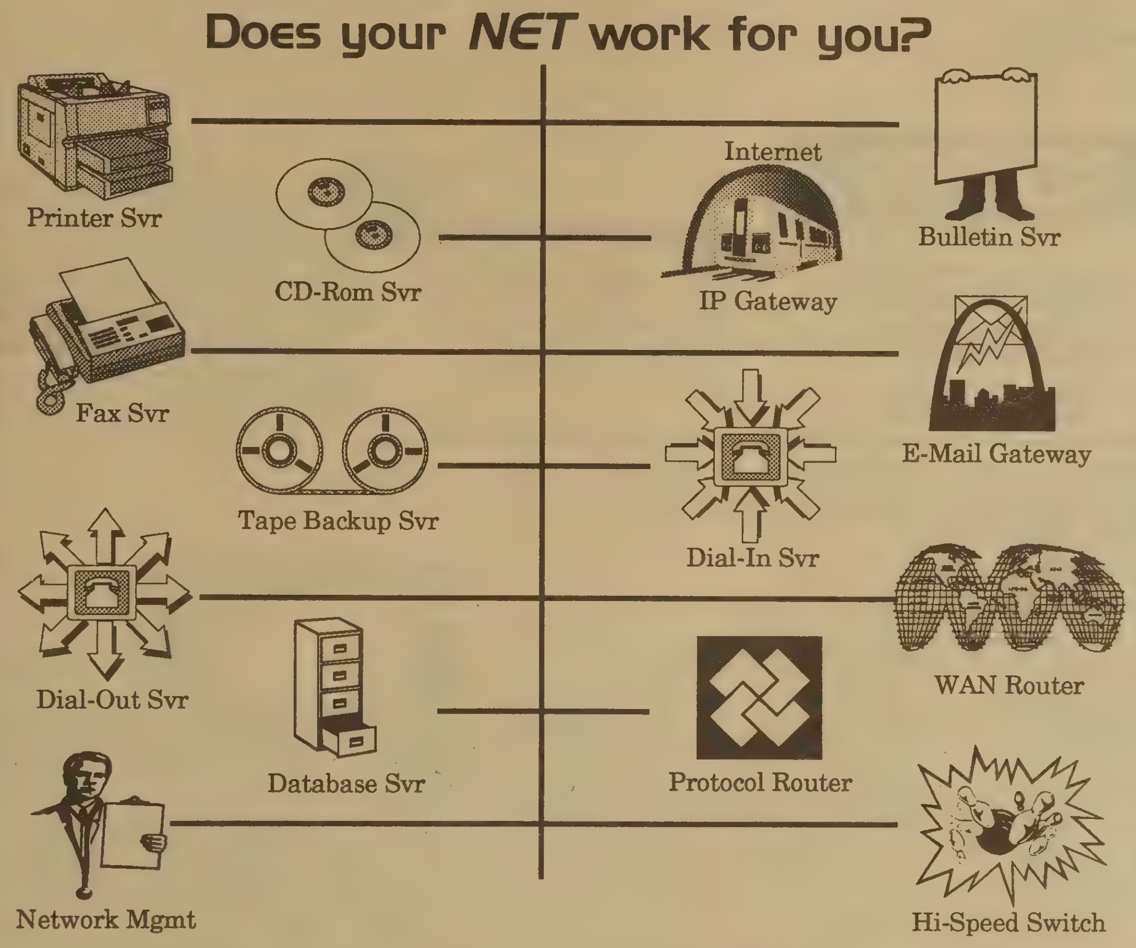

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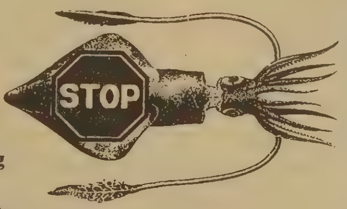

NAC Engineering & Service Department is composed of veterans in UNIX, Windows, Macintosh, WAN, and a group of CNEs.

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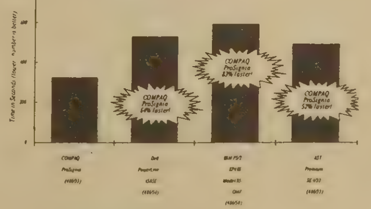

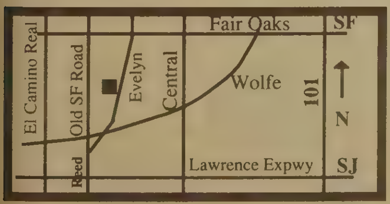

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REVIEWS

MACINTOSH SOFTWARE REVIEWS

ACHIEVING YOUR CAREER: JOB SEARCH SOFTWARE FOR THE WHOLE HUMAN BEING

Designed By: Jim Hurd
Published By: Up Software
For: Macintosh (2MB RAM, 2.5MB with System 7; requires HyperCard or HyperCard reader)
List Price: $99

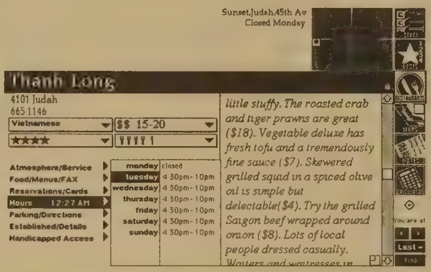
The implosion of white-collar jobs in the American economy means that growing hordes of highly skilled computer users find themselves out of work. Even this social mushroom cloud has a silver lining: there is now a booming market for job search software. Achieving Your Career is a comprehensive package designed to support any Mac user who is seeking employment in a business, technical, or professional career.

The software is a professionally crafted and neatly interlinked set of HyperCard stacks, totaling about 5MB of hard disk space after installation. About 1MB of this is sound, which is optional. The use of multiple windows and floating control palettes is very stylish, but it might be confusing to a beginner, and it tends to crowd the screen of a compact Mac. There is an indexed 16-page user manual that explains the program's features.

There are four main components to Achieving Your Career.

The first is a collection of sample resumes and letters, with detailed notes and explanations. These can be copied into any word processor for editing and formatting. They cover typical jobs in marketing, accounting, sales, data processing, editing, health care, technical writing, and administration. There is a list of action verbs that personnel managers like to read on a resume.

The second component includes a database of five hundred major corporations, a contact tracking utility, a calendar with daily, weekly and annual scheduling, and a tutorial on how to research job opportunities. The database can be searched by industry category or telephone area code, and it is pretty much useless since these top five hundred corporations are precisely the ones that are enthusiastically laying off workers these days. You can, however, add your own listings to the database.



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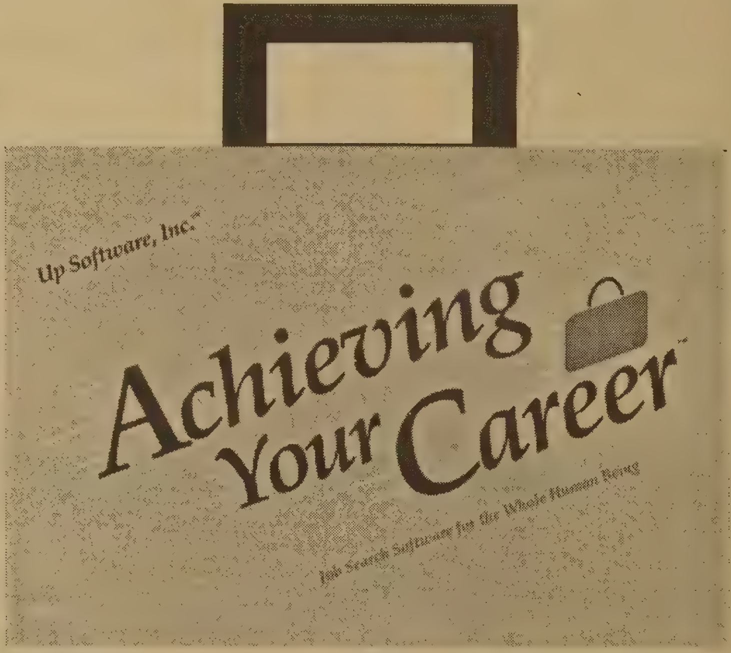
Parking/Directions	friday	4 30pm - 10pm
Established/Details	saturday	4 30pm - 10pm
Handicapped Access	sunday	4 30pm - 10pm

little stuffy. The roasted crab and tiger prawns are great ($18). Vegetable deluxe has fresh tofu and a tremendously fine sauce ($7). Skewered grilled squid in a spiced olive oil is simple but delectable($4). Try the grilled Saigon beef wrapped around onion ($8). Lots of local people dressed casually. Waiters and waitresses in



Top: Screen shot from Dining Digitally in San Francisco; Bottom: Achieving Your Career from Up Software

The third component is a set of interactive role-playing simulations using digitized sound. The interview exercise includes the twenty worst questions commonly asked in job interviews. The negotiation exercise lets you practice the delicate art of asking for more money. The telephone exercise lets you practice fighting your way through thickets of receptionists, secretaries, and voice mail systems to reach the beleaguered manager with hiring authority. With appropriate hardware, you can record your own replies to evaluate your performance.

The fourth component is a collection of exercises for evaluating yourself, evaluating companies, and recording your experiences. There is also an Encouragement Nook, a charming drawing of a cozy living room where you can soothe those nerves frazzled by frustrating days of rejection. (Up Software, Inc., 722 Lombard St., #204, San Francisco, CA 94133. 415/921-4691 or 921-0939)

DINING DIGITALLY IN SAN FRANCISCO

Published By: Digital Lantern
List Price: $59.95, with quarterly updates available for $18.95
Reviewed By: Chris Okon

With over thirty-one hundred restaurants, San Francisco is a city where dining is sport. If you've ever "felt like Italian food," wondered what kind of restaurants are near Moscone Center, or wanted to capture impressions about your favorite restaurant, the Digital Lantern's Digital Restaurant Guide to San Francisco is for you.

Designed in HyperCard for Apple PowerBooks and other big screen Macintoshes, the DRG lists all thirty-one hundred-plus restaurants and provides an interactive travel experience that includes maps, sounds, and images of San

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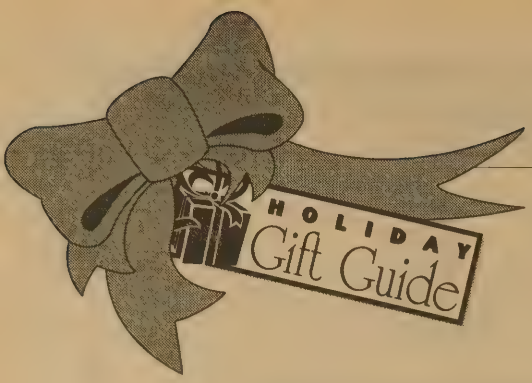

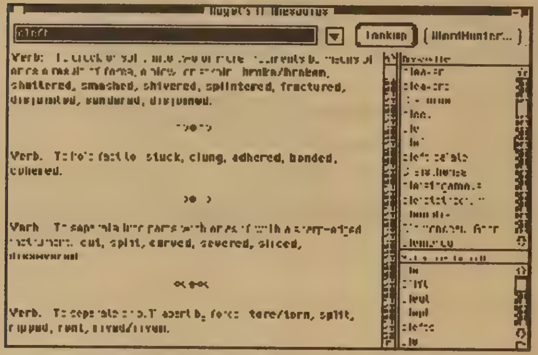

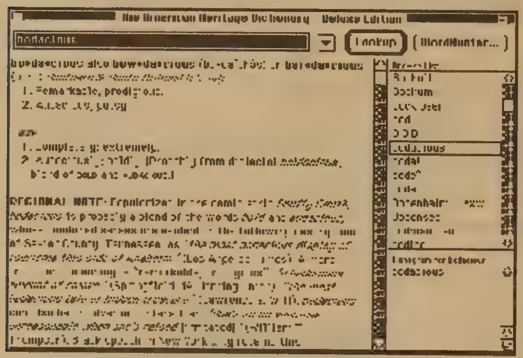

Francisco's culturally diverse neighborhood restaurants. You can search for a restaurant by name, cuisine, or neighborhood, with each entry offering basic information such as address, phone, hours, handicapped access, payment method, and quality ratings for food, atmosphere, service. Restaurant reviews are provided by members of the Precision Dining Association (PDA) of San Francisco, a group of avid diners/PowerBook owners who meet periodically at different restaurants.

Special touches include map markers that light up to show which restaurants are open, voices of waitstaff who pronounce names of exotic dishes or a simple note that states a restaurant is "Open for another two hours and 19 minutes." Best of all, you can customize the DRG to reflect your own "bests" lists, change restaurant information or add new locations.

The DRG comes on three floppies and requires 8.5MB disk space. (Digital Lantern, Inc., 972 Chenery St., San Francisco, CA 94131. 415/337-6410)

DELUXE AMERICAN HERITAGE DICTIONARY, THIRD EDITION

Published By: Star Press
For: Any Macintosh with 1MB RAM (2MB for System 7), hard disk with 14MB free space, System 6.0.2 or later. Windows and DOS versions also available.
List Price: $49.99
Reviewed By: Kevin M. Savetz

There are those of you who only use dictionaries to check the spelling of a word or find a quick definition. You already have the right words, but maybe you aren't sure how to use or spell them. Meanwhile, the rest of us are sitting miserably thinking, "What's the word for those big, puffy clouds?" The Deluxe American Heritage Dictionary v3 is dictionary software for all of us, combining complete dictionary features with some unexpected—and welcome—tools. The most notable feature is Word Hunter, a function to search definitions of words—to find the one that means exactly what you want to say. For instance, enter "measure and depth and water" and you'll see a list of words whose definitions contain each of those words (such as hydrometer, echo sounder and depth finder.) Then, click on one of the choices for a full definition.

Version 3 includes all the basic dictionary fare, including full definitions and pronunciation guides for each of its two hundred thousand words, hyphenation rules, sample sentences, and word history. Roget's thesaurus is part of the package, providing hypertext links to synonyms, antonyms, and related words.

The software shows its power over its bound counterpart with the ability to search for words using "wildcards" (for instance, finding all the seven-letter words ending in "ent".) Puzzle-lovers will find joy in the ability to find anagrams for any word.

The American Heritage Dictionary works well as a standalone dictionary, but it won't spellcheck your word processing documents. It can also be slow, especially when using the WordHunter or searching with wildcards. (You can expect to wait about thirty seconds to complete a complicated search.) Its final drawback is its enormous size. It is a hard disk hog: the Macintosh version weighs in at 14MB. If you can handle the storage space, the American Heritage Dictionary on your computer will stop your tireless search for the whatchacallit. (Star Press, Inc., a division of WordStar International, Inc., 207 Alameda del Prado, PO Box 6113, Novato, CA 94948)

SPACE MADNESS

Published By: High Risk Ventures
For: Macintosh with 68020 CPU or better, 2.5MB RAM, 2MB hard disk space, 256-colors, system 6.0.7 or later.
List Price: $30
Reviewed By: Kevin M. Savetz

Space Madness is Asteroids on steroids. At first glance, it seems to be a basic mindless fly-through-space-destroying-the-nasties kind of game, but it is filled with goodies that will keep you coming back for further abuse. Detailed 256-color graphics, humorous sounds, and uncomplicated

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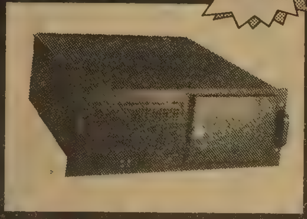

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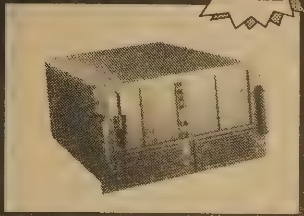

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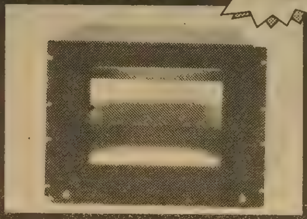

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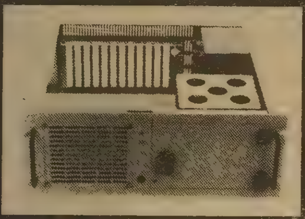

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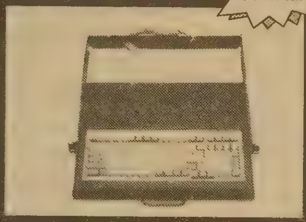

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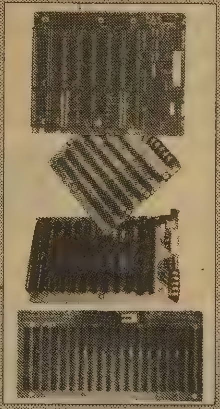

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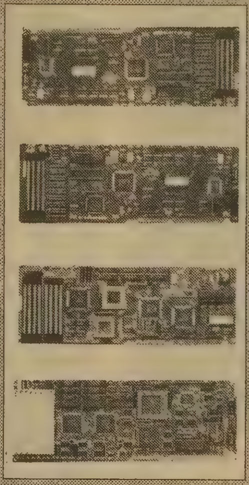

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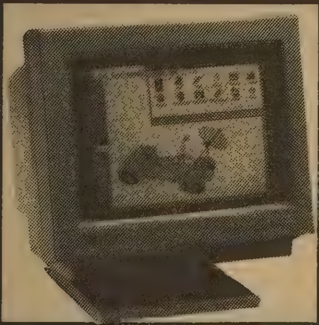

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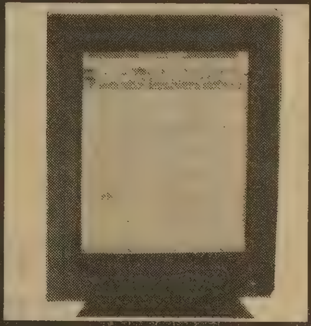

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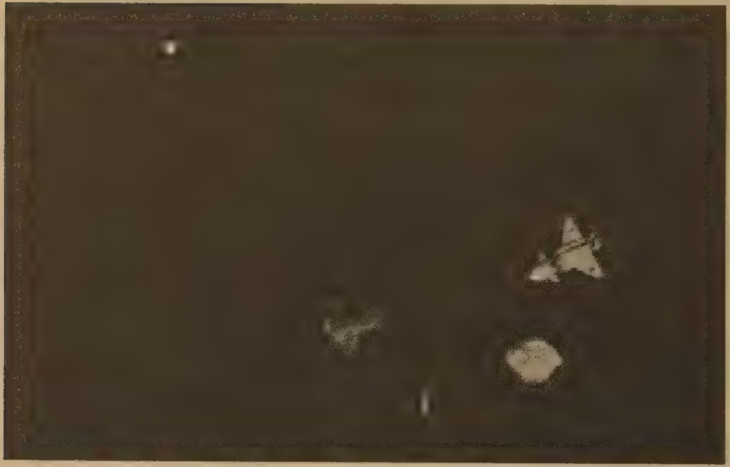
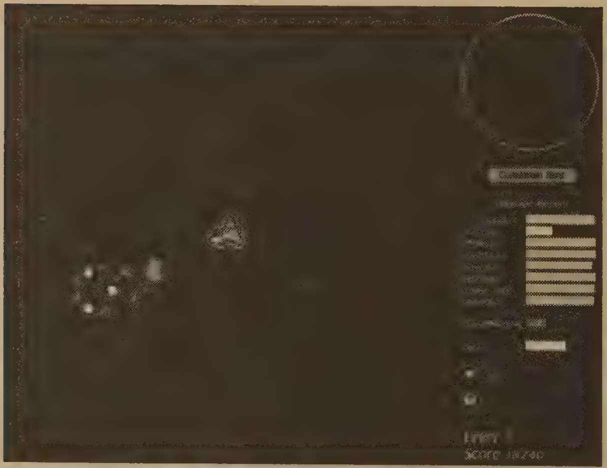
play make Space Madness a winner.

On each level, you must find and destroy the enemy base, then race through a vortex to the next level. The first few levels are relatively simple, offering few impediments between you and the enemy base. Level ten or so is where things change. A variety of vicious baddies (space tanks, mines, wubbly blobs, and so on) impede your goal. To make it a fair fight, there are plenty of enhancements along the way, such as extra torpedoes, automatic shield gadgets, and fuel.



Above and Below: SpaceMadness



Your space ship is equipped with the usual collection of goodies—pellets (your basic outer space B.B. gun), plasma torpedoes (the heavy guns), fuel, shields, a guidance system, and a scanner. Should a wayward enemy shot pummel your ship, woe to you if your torpedoes system fails—or worse, if your viewscreen goes out. That's right: each of the ship's systems can become damaged or go offline in the midst of combat. One hit on the viewscreen system will make objects appear fuzzy. Get hit again, and you might as well play with your eyes closed. A series of bar graphs at the side of the screen lets you know how each system is holding up. Systems are repaired automatically given enough time.

The game includes other good effects. Objects affect the things around them: sweep close to a piece of floating rock without touching it, and it will veer around your ship, affected by your gravitational field. If you're too close to the enemy base when it explodes, you'll find yourself spinning backwards through space, out of control.

Experienced players may become bored with the first few easy levels, but the game has a quasi-hidden button for starting at any level. Some games penalize you for using a start-anywhere function, but Space Madness gives you extra points for it. Nice touch. My only complaint is that on levels with many objects (over twenty) game play is noticeably slower. As you turn enemies into space dust, things speed up again.

Space Madness is High Risk Ventures' first commercial product. They plan to add more goodies to the game. Updates will be made available to current owners of the game. (High Risk Ventures, PO Box 70690, Eugene, OR 97401)

MULTIMEDIA SOFTWARE REVIEWS

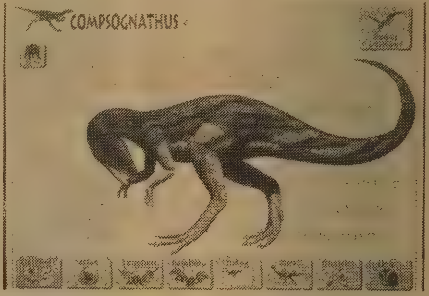
DINOSAURS CD-ROM DATABASE

Published By: Microsoft
List Price: $79.95
Reviewed By: Woody Liswood

Dinosaurs is a fun way to view, hear, and watch these prehistoric creatures as they wander, hunt, fly, swim, and eat their way through the flora and fauna of their era. There are over one thousand illustrations and photographs of more than eighty dinosaurs to help you discover where and when they existed, what they ate, and who we think their relatives were.

Dinosaurs installs as a normal Windows program. Almost every part of the screen comes alive. As you move your cursor, for instance, it may change from the pointer to a hand. When the hand appears, click the mouse and you will get information, such as an article about the image the hand is touching.

Most of the icons and screens on this CD-ROM use a carved stone motif. In the Index, clicking on a carved letter brings you a screen of all the dinosaurs that start with that letter. A click on the appropriate dinosaur begins your journey.



There are also seven multimedia movies about dinosaurs. For instance, there is one showing Triceratops chasing after another dinosaur through the forest, catching and fighting it, and eating its dinner. Yes, there is even the red blood from the other dinosaur on Triceratops' lips.

The Help system is not the normal text-based Windows Help. Instead, requesting Help brings a screen that uses the same graphics and methods as the rest of the program.

In the picture gallery you can make any of the pictures into Windows wallpaper. Also included in Dinosaurs is the ability to turn any of the dinosaurs' into a screen saver image. (Microsoft Corp., One Microsoft Way, Redmond, WA 98052)

ARTS & LETTERS JURASSIC ART

Published By: Computer Support Corp.
List Price: $59.95
Reviewed By: Woody Liswood

Jurassic Art contains over four hundred clip art images of dinosaurs plus scenes of volcanoes, dinosaur nests, leaves, ferns, trees, and other images to help you create

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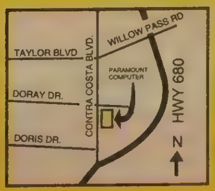

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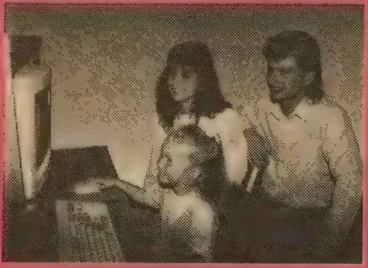

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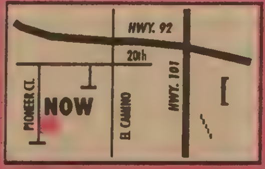

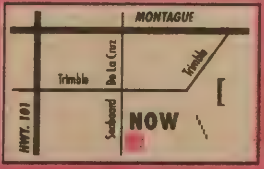

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realistic environments. There is also a database with a wealth of information about dinosaurs.

Running under Windows, Jurassic Art uses a product called Scenario to display and edit its images. There is a separate feature, called Flex-Art, that lets you modify and place your favorite dinosaur into almost any situation. This means that the same image from the clip art library can be made to stand, jump, claw, run, open mouth, close mouth, grab, or do almost anything.

If you already use Arts & Letters software, you can load the Jurassic Art clip are libraries directly into the Arts & Letters clip art manager. You can also import TIF, WMF, PIC, and TXT files and export to EPS, CGM, TIF, WPG, and WMF formats.

Jurassic Art also comes with a Dinosaur dictionary with information on over fifty species of dinosaurs. You can search through the dictionary to discover both well-known and little-known information, including size, pronunciation of names, and a black-and-white image that shows a silhouette of the dinosaur scaled against a human.

In the Dinosaur Database is a "Where to See" feature that tells you where there are attractions, museums, quarry, and dinosaur tracks in the United States, Canada, and Mexico.

While Microsoft's Dinosaur CD-ROM is oriented more toward education and allows you to print more interesting images, Jurassic Art lets you print a much higher quality image and can be used with almost any of your presentation or illustration programs, plus it has a very useful database.

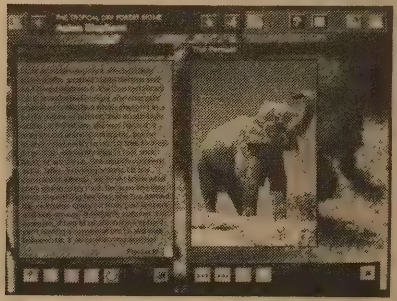
If you are into dinosaurs or just want to learn about them, Jurassic Art is a "must-have" program. If you are an Arts & Letters fan, this is a wonderful addition to your clip art libraries, giving you a wide variety of dinosaur images to brighten up your otherwise dull graphics. (Computer Support Corp., 15926 Midway Rd., Dallas, TX 75244. 214/661-5429)

THE SAN DIEGO ZOO PRESENTS THE ANIMALS

Published By: Software Toolworks, Inc.
List Price: $99.95
Reviewed By: Woody Liswood

The San Diego Zoo has joined its knowledge about the animal kindgom with the latest in multimedia CD-ROM technology. You can spend hours exploring this CD-ROM—from the Aardvark: Totally Tubular to the Wombat: Kola Kin.

While The Animals is for both MS-DOS and Windows, this review is about the DOS version, which is somewhat crippled when compared to the Windows MPC version. The main drawback with the DOS version is that you cannot copy the graphic images from the CD to another application. To use these images you must use a screen capture program, but you can print the text and factual information to your disk for use elsewhere.



There are over thirteen hundred color photographs and twenty-five hundred screens of text about the animals and their habitat, plus articles and scientific data on more than two hundred animals.

The opening screen contains few icons, mainly giving you an overview and instructions on how to use the Animals. The overview icon is a tramway. At the real San Diego Zoo visitors can take a tramway ride that overlooks much of the zoo. During this ride many people plan their visit. On the CD you can do the same thing.

To run the Animals CD-ROM requires a MPC compliant computer.

Overall, my two sons (eleven and fourteen) would much rather explore these CD-ROM databases than spend time paging through a paper encyclopedia. And searching through the Animals is much less tiring than spending two days at the San Diego Zoo viewing the same creatures. (Software

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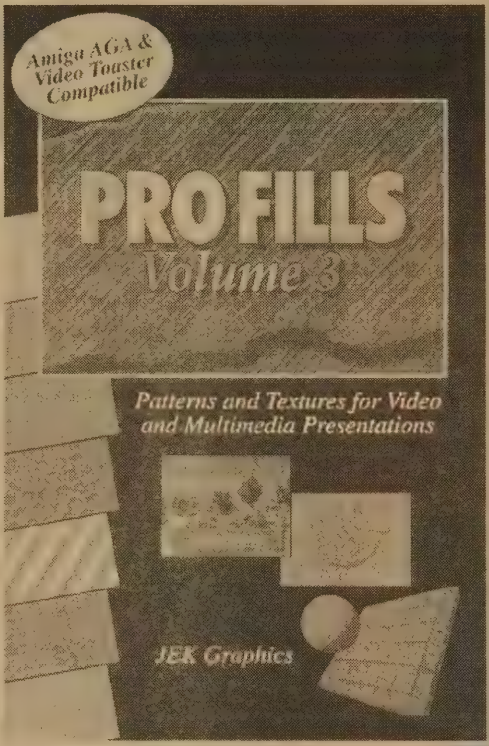
AMIGA SOFTWARE REVIEWS

PRO FILLS VOLUME 3

Published By: JEK Graphics
List Price: $49.95
Reviewed By: Douglas J. Nakakihara


Amiga AGA & Video Toaster Compatible
PRO FILLS
Volume 3
Patterns and Textures for Video and Multimedia Presentations
JEK Graphics

Pro Fills Volume 3 offers 139 different patterns and textures, plus eighty-seven interchangeable AGA and ECS color palettes—all on a single floppy disk. Pro Fills automatically repeats a selected pattern over and over (sometimes called tiling), to create a full screen at virtually any resolution requested by the user. Built-in functions allow you to generate standard NTSC and PAL Amiga resolutions, including overscan. You can also manually set the resolution up to 10,240 x 10,240! Since Pro Fills builds the image directly onto disk, you don't need all of the RAM typically required to hold an image of that size. The Edge Match feature will create images with perfectly matched sides, great for mapping onto objects in a 3-D rendering program.

Amazingly, these patterns only use six colors from the palette. The remaining colors are available for whatever is overlaid onto the background. Because Palettes and Patterns are both saved as IFF brush files, you can easily create your own using a paint program and use them with Pro Fills.

The manual contains helpful hints on using Pro Fills with the Video Toaster, Art Department, and DCTV, with an extensive section on DeluxePaint. Rendered backgrounds are extremely clean and professional. Pro Fills Volume 3 would make a great addition to anyone's video tools library. (JEK Graphics, Inc., 12103 S. Brookhurst St., Ste. E-125, Garden Grove, CA 92642-3065. 714/530-7603)

PROCONTROL

Published By: ASDG, Inc.
List Price: $90
Reviewed By: Douglas J. Nakakihara

With the introduction of ProCONTROL, ASDG has brought the power of ARexx programming to the masses. Essentially, ProCONTROL is an Art Department Professional (ADPro) front-end that allows you to write an ARexx script using a point-and-click interface. These scripts can be edited, saved, loaded, and executed directly from ProCONTROL. Processing a sequence of files is as easy as highlighting them in a file requestor.

ProCONTROL also allows you to use incremental values in ADPro's operators in a way that creates movement. ADPro receives a different value each time through the script. You can, for example, easily make an animation fly around the screen while it is animating! The multiple scripts feature allows you to create several scripts that are automatically executed one after another. So you could take an animation, change it to grayscale in one script and then make it fly around the screen with the next script.

ProCONTROL is to ADPro, what the Workbench is to the CLI. It controls ADPro so well you may never have to run ADPro by itself again. It almost makes me ill to think of the hours I've spent writing and debugging ARexx scripts, before I acquired ProCONTROL. Of course, for really complex stuff you may still have to write your own ARexx scripts, but ProCONTROL should suffice for 95% of most people's needs. If you use ADPro, you need ProCONTROL! Requires ADPro v2.3 or later and will also work with MorphPlus. (ASDG, Inc., 925 Stewart St., Madison, WI 53713. 608/273-6585)

ProCONTROL

SCENERY ANIMATOR 4.0

Published By: Natural Graphics
List Price: $99.95
Reviewed By: Douglas J. Nakakihara

Natural Graphics has figured out a way to make their 3-D landscape rendering program, Scenery Animator, even better. Version 4.0 now supports the new AGA modes for greater resolutions and more colors. This product generates breathtak-

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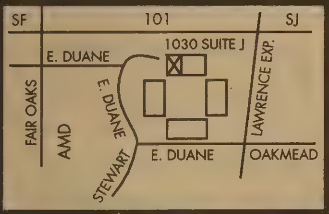

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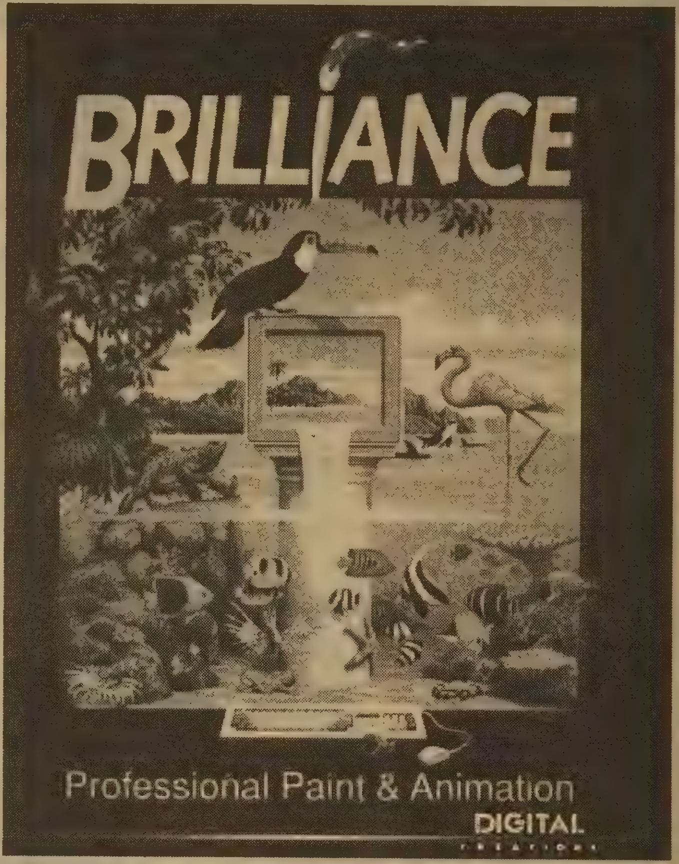
ing still and animated landscapes with trees, clouds, lakes, oceans, and snow, based on US Geological Survey or imaginary fractal data. Data files for Yosemite, the Grand Canyon, Oahu, and Mt. St. Helens are included.

This version features the ability to directly place and animate VideoScape 3-D objects (ASCII format only) into your scenes. Several objects, including a star field, are included. This is a fun feature, but the object rendering quality is not up to par with the landscape.

Trees can also be manually placed if you wish. Zooming is as easy as dragging a bounding box on the picture of the area you want to zoom in on. Also, a night option is now featured. The preview screen is reportedly twice as fast as v3.0. Camera movement has been made much easier. Scenery Animator's integrated animation editor now provides smoother paths and banking. The point-and-click animation interface is still very easy to use and requires no script writing.

Although it has been improved, the interface could still use some additional work. Several parameter settings require too much esoteric numerical input. Also, simply adding some slider gadgets would be very helpful. However, Scenery Animator is still my favorite for rendering clouds—they're absolutely beautiful. (Natural Graphics, PO Box 1963, Rocklin, CA 95677. 916/624-1436)

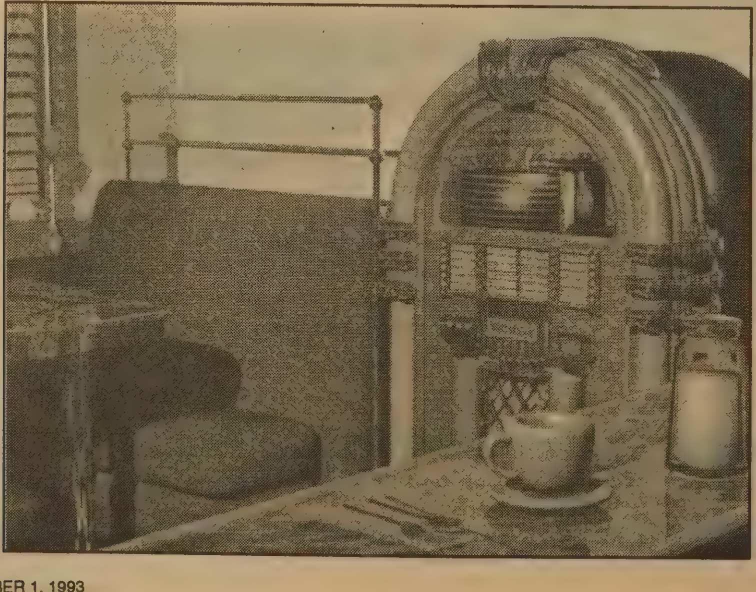


DINER OBJECT SET FOR IMAGINE

Published By: Terra Nova Development
List Price: $47.50
Reviewed By: Douglas J. Nakakihara

Brad Schenck, the well-known Amiga animator, has released his first commercial set of 3-D Imagine objects. The three-disk package comes with all of the objects necessary to build a complete 1950's diner, many with low- and high-resolution versions. The list of objects include counter, booth, jukebox, pay telephone, dish, cup, table, water glass, napkin holder, salt and pepper shakers, silverware, stool, sugar jar, toilet, donuts, chalk board, menu, sink, doors, walls, and ceiling.

Two example project staging files are provided, one requires 14MB of RAM to render and the other needs 5MB. The projects have several different camera shots of the diner. Using one of these project files as a starting point can save you the work of positioning all of the objects yourself. Of course you can always "rearrange the furniture."



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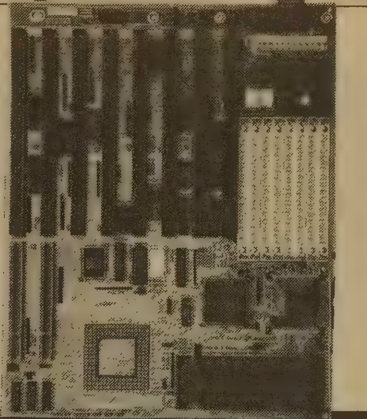

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PC Editor's Choice

Sept . 1992
Volume 1 Number 6
(U.K.)

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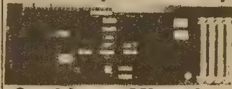

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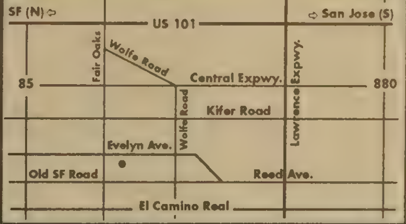

Raytraced rendering took nearly twenty-six hours for some frames on my aging A3000, but the results were more than worth the wait. Using the scanline option and a lower resolution, rendering time was cut to several frames per hour. Also, lowering the RSDP and increasing the EDLE values in Imagine's preference settings will speed up rendering time.

Brad is one of the masters and it shows in this product. If you need objects of this sort or just appreciate Brad's work, the Diner object set will not disappoint you. (Terra Nova Development, Inc., 1535 Santa Barbara St., Ventura, CA 93002)

BRILLIANCE

Published By: Digital Creations
List Price: $249
Reviewed By: Douglas J. Nakakihara

Brillance, Digital Creations' new paint program ships with two versions of the program. One uses the normal "register"-based graphic modes and the other uses the Amiga's HAM modes. Of course, AGA is fully supported and IFF24 images can be loaded and saved.

Those of you comfortable with DPaint (from Electronic Arts) keyboard commands, will feel right at home with Brilliance, as most of the keystrokes are the same. Many of the drawing tools also operate similarly. The graphical interface is significantly different, however, and uses stacking menus (not pull-downs).

Brilliance has all of the paint features you might expect, but adds many improvements to the DPaint standard, such as brush wells. For instance, you can have up to eight brushes and anim brushes at your fingertips without having to load and save files. You can also have several images in memory at the same time. Multiple undo and redo is supported as well. The animation function has opacity and decay settings that permit you to change the appearance of a brush as it is animated over several frames. The standout feature of Brilliance is speed, but there are many other outstanding features.

In a nutshell: Brilliance provides all of the power of DPaint and more. Only the joystick-port dongle may keep Brilliance from becoming your favorite paint program. (Digital Creations, PO Box 97, Folsom, CA 95763-0097 916/344-4825)

MAGIC LANTERN

MAGIC LANTERN

Published By: Terra Nova Development
List Price: $95
Reviewed By: Douglas J. Nakakihara

Magic Lantern is a new animation compiling program for all Amiga display modes including AGA; MacroSystemUS's Retina and Expert Services' Picasso II in 8-, 16-, and 24-bit modes; Centaur's OpalVision; and GFXBase's GDA card. With Magic Lantern you can now combine animations and audio (mono only) into a single playable file.

Using a graphical interface, it is a simple task to identify the desired image and audio files. Achievable frame rates will depend on many factors, including your Amiga's capabilities, the selected display-mode and resolution, and the delta (i.e., difference) between each frame. Magic Lantern provides a variety of options to optimize your anim, including single- and double-buffering. There is ARexx support for nearly all functions.

In the Synchronize mode, Magic Lantern will strictly enforce the user-specified frame rate. If your system cannot keep up with the frame rate, frames will be dropped. This differs from the normal Amiga Anim formats, which would simply play the anim slower.

Two freely distributable player programs come with the program, PlayDiff and PlayDiffHD. PlayDiffHD will spool animations directly from a hard drive; however, performance will most likely be less than acceptable unless you are using a CPU-SCSI accelerator board or an A4000 with SCSI II board. As such, for most people, playback-time will depend on available RAM and the size of the animation.

The 35-page manual is well written and informative. It's about time the Amiga got something like this! (Terra Nova Development, PO Box 2202, Ventura, CA

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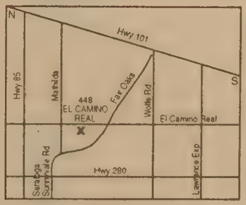

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PROFESSIONAL PAGE 4.1

Published By: Gold Disk
List Price: $295, $75 upgrade from v3.0
Reviewed By: Douglas J. Nakakihara

Gold Disk has upped the ante in Amiga desktop publishing with its newest upgrade to Professional Page. Topping the list of new features is the AGA with selectable screen modes, which allowed me to open the interface on an 800 x 600 full-screen display using my 24-bit display board.

Adobe Illustrator, EPSF, TIFF, GIF, PCX, and BMP have been added to the graphic import filters. You are supposed to be able to edit Illustrator graphics using the ProDraw hot link feature, but it would only work with ProDraw clips. A very limited hot-linked paint program for editing bitmaps is included.

ProPage's genies (aka ARexx scripts) have their own built-in editor, so you can modify or create new ones from within ProPage. Basically, the commands are the same as v3.0, but a few have been added to support the new features. 4.0 still only works right if genies are in the REXX: directory, which can get pretty cluttered.

Other ProPage 4.0 features include: a nice graphical page sorter; enhanced fill patterns that also work with text; shadowed, superscript, and subscript text styles; handy non-printing yellow stick-on notes; variable display magnification; a much-needed font preview mode; and, adjustable kerning.

Documentation is provided in the form of a spiral-bound v2.0 manual with a 4.0 supplemental booklet. ProPage keeps getting better, but I still want more! (Gold Disk, Inc., 5155 Spectrum Way, Unit 5, Mississauga, Ontario, Canada L4W 5A1, 416/602-4000)

TAPEWORM-FS

Published By: Moonlighter Software Development, Inc.
List Price: $129.95
Reviewed By: Douglas J. Nakakihara

I've always felt that tape backup units were a necessary evil. I could think of much better things to spend my money on, but the consequences of not backing up or the agony of using floppy disks was just not palatable. Moonlighter's TapeWorm-FS has put an end to that feeling and made my tape backup drive a more useful peripheral. TapeWorm-FS is an Amiga file system for SCSI tape devices, which allows a tape to be accessed like any other AmigaDOS volume. The drive operates like a Write Once Read Many (WORM) drive, where everything that you write to the tape remains there, even if you "delete" a file.

TapeWorm-FS requires AmigaDOS 2.0 or greater and there is no minimum memory requirement. Initial releases of the software had significant problems with my Commodore A3070 tape drive, even though it was listed as compatible in the manual—v1.3 finally worked. Therefore, before your purchase a tape drive or TapeWorm FS, I would recommend you contact Moonlighter to verify compatibility.

Performance on my A3070 was surprisingly quick; however, DAT drives should provide better performance with up to 16GB capacity. Due to the linear aspect of tape, TapeWorm-FS works best with files that are written and read in the same order. As such, it is perfect for storing 3-D animation frames. If you have a compatible tape drive, TapeWorm-FS is a "must have." (Moonlighter Software Development, Inc., 3208-C E. Colonial Dr., Suite 204, Orlando FL 32803. 407/384-9484)

PEGGER

Published By: Heifner Communications
List Price: $99.95
Reviewed By: Douglas J. Nakakihara

With Pegger, from Heifner Communications, you can now utilize the benefits of JPEG compression with virtually any Amiga program. A JPEG'd image file can be less than a tenth of the original file size and still be visually indistinguishable from the original. This means that you can now store fifteen or more hi-res 24-bit images on a single floppy disk!

Pegger's Snoop task will transparently compress and decompress image files without the calling program even knowing. For example, with the Video Toaster, you can save framestores in JPEG format as well as read them. Pegger is especially useful when used with Lightwave: use JPEG for image maps and rendered frames—save megabytes of disk space.

Snoop monitors directories specified by the user. When a file is read from or written to one of the "snooped" directories, Pegger goes into action automatically. The calling program really has no idea that it is working with JPEG. Provisions to convert image files to and from JPEG format are also provided with automatic renaming capability.

Pegger will process Framestores, IFF24, HAM8, and DCTV 3- and 4-bit plane files (filtered and non-filtered). Pegger requires DOS 2.0 or greater, 2MB of RAM, and a hard disk. An '030 or better processor is recommended. Pegger's transparent operation offers advantages over using normal image processing programs. There is a great manual as well as an excellent user interface and ARexx support. Highly recommended for those who work with 24-bit images. (Heifner Communications, PO Box 10290, Columbia, MO 65205-4005 1-800-445-6164)

PC HARDWARE REVIEW

VL-BUS SUPER WINSTATION 66

Manufactured By: Comtrade
List Price: $2345
Reviewed By: John Wolcott

If you've been looking for a "killer" personal computer, here it is. The Super WinStation 66 is among the fastest personal computers available. Outfitted with all of the tricks that will make the Windows environment perform, this computer is designed to impress.

If you're just a casual computer user working in simple word processor or a greeting card program, this is not the system for you. Many systems are available with slower processor speeds, standard 16-bit buses, and ordinary graphics capabilities that are much more "bang for the buck." However, when running applications that are very processor intense, such as large spreadsheets, graphical layout software, or specialized business software involving large numerical calculations, a system such as this may be just

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486DX-33C EISA	359	519	709	759	839	889	899	949
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486DX-50C ISA	416	576	766	816	896	946	956	1,006
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486SLC-33C ISA	96	256	446	496	576	626	636	686
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what you need.

Offered by Comtrade, the Super WinStation 66 features a 486/66 DX2 processor, 256K SRAM cache, 8MB of RAM (expandable to 32MB), 1.2MB 5.25" and 1.44MB floppy drives, and a Conner 340MB 12ms IDE hard drive with a VESA local bus controller. The video card is a 32-bit VESA local bus ThunderPro Graphics Accelerator with 1MB of RAM. The monitor is a 15" CTX-1561 with features that include .28mm pitch, with a 1280 x 1024 resolution. The monitor display is very fast and the resolution is staggering.

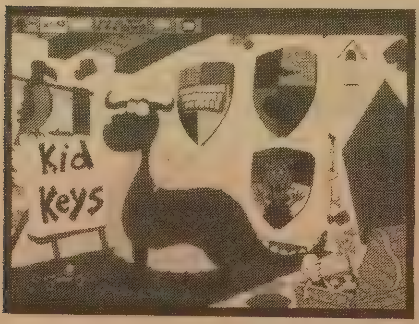
Other standard features include an enhanced 101-key keyboard, a high-resolution 400dpi serial mouse and MS-DOS 6.0 and Windows 3.1 preinstalled. The mouse supplied with the system is the only performance drawback I found. I recommend the Logitech mouse that may be purchased with the system for an extra $40. (Comtrade, 15314 East Valley Blvd., City of Industry, CA 91746. 818/961-6688)

PC SOFTWARE REVIEW

KIDKEYS

Designed By: Mary Cron, Katie Fisher
Lead Programmer: Bill Snyder
Published By: Davidson
For: MS-DOS (12MHz 80286 or faster CPU, 640K RAM, VGA graphics, mouse; audio card required)
List Price: $49.95 (lab packs and site licenses available)

The dysfunctional layout of the QWERTY keyboard is one of the greatest barriers between people and computers. This is particularly true for kids, who are eager to use all kinds of software tools, but frustrated by the need to hunt for the right key. While we are waiting for technology to deliver affordable voice input or direct neural-electronic links, we must all continue to cope with keyboards. A good typing tutor program is one of the most cost-effective investments (of time, not money) that any new computer user can make.



KidKeys is designed for users aged four to eight. The program is based on recent research into how the youngest learners master typing skills. It has been found that kids orient to the keyboard most easily when letter sounds and images are associated with key positions. So the program uses animation, digitized speech, music, and sound effects to reinforce this association. For this age group, an appropriate goal is ten words per minute, achieved most effectively when exercises emphasize accuracy over speed. Unlike many grown-up typing tutor programs, KidKeys never makes you race against the clock.

Keystone, a cartoon dragon, greets you in the Playroom, the program's "main menu," where you can select one of three activities by clicking on the corresponding picture.

Magic Keyboard is an on-screen cartoon version of the QWERTY keyboard without the top row of number keys or those potentially confusing punctuation marks. This will be disconcerting to traditional typing instructors, since the right-hand pinky is supposed to rest on the hateful semicolon key. Standard keyboards were designed for grown-up sized fingers. "Young children," says the manual, "are not expected to achieve constant or accurate hand position."

Dragon Tunes is a set of activities that turns the keyboard into a three-octave musical instrument. You can simply explore the key-sounds, play the Alphabet Song, to learn to type all the letters in sequence, or play one of twenty-six popular children's songs by typing a series of letters.

Monster Rescue is a game that challenges you to free four trapped creatures by typing the correct sequence of letters. There are three levels of difficulty.

The program is installed from compressed files on two high-density 3.5" disks. It requires about 6MB of hard disk space, of which over 2MB is sound files. There is a handy Uninstall utility; just the sort of thoughtful touch we have learned to expect from Davidson. Most home computer users these days are constantly installing and deleting programs, in a desperate struggle to fit too many neat applications into too little hard disk space. The illustrated 22-page manual includes suggestions for parents and teachers. (Davidson and Associates, Inc., PO Box 2961, Torrance CA 90509. Customer support: 1-800-556-6141. Sales: 1-800-545-7677)

BOOK REVIEWS

DEMYSTIFYING MULTIMEDIA: A GUIDE FOR MULTIMEDIA DEVELOPERS

Senior Editor: Randy Haykin
Produced By: Vivid Publishing
Published By: Apple Computer
List Price: $29.95
Reviewed By: Rich Yacco

If you are developing an interactive title, *Demystifying Multimedia* is an excellent guide to all facets of what it takes to be successful. The book is written in an easy to understand style and is divided into three main areas.

The first section covers the roles of everyone involved, including the audience, legal professionals, project managers, and production staff. This provides a good overview of how your role in a project relates to everyone else's. The second section describes the variety of multimedia projects that are currently being produced. Among these are kiosks, electronic books, corporate training, interactive games, and performance art.

But the real strength of *Demystifying Multimedia* is the process section. Here you will find details of project management; concept and planning; designing and prototyping; production; testing; duplication and distribution; and follow-up. Within each of these areas is a wealth of information that will educate anyone not familiar with a particular procedure. Even people expert in a particular area should appreciate the detailed reviews of basics that you may have buried in your subconscious over the years.

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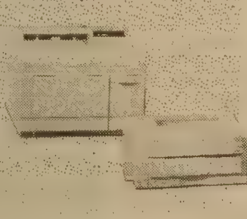

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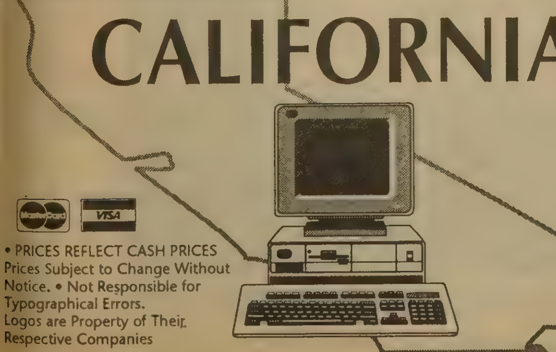

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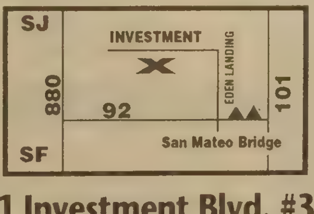

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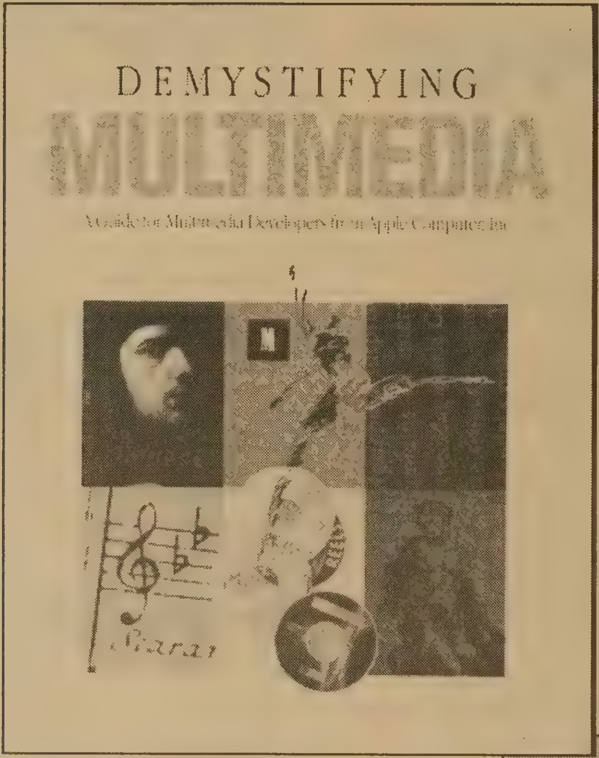


Particularly valuable throughout the book are the "Tips" checklists that summarize the key things to consider about a specific topic.

As a supplement to the very detailed "how-to" information presented, the book incorporates interviews with industry leaders and case studies of multimedia projects. It concludes with a list of resource books, periodicals, pamphlets, organizations, schools, conferences, hardware, and software. Also included is a 12-page glossary/index. (Available as part of the Apple Multimedia Program for developers, in selected computer stores, university book stores, and Vivid Publishing, 415/512-7200)

THE SOFTWARE LEGAL BOOK

Written By: Paul S. Hoffman
Published By: Shafer Books
List Price: $185
Reviewed By: David A. Simon, CPA

Read any good books on software agreements lately? The different software and technology legal publications could easily fill a floor of Boalt Hall—multivolume treatises, form books, and raw law—most of which are written and priced for attorneys or CPAs who are forced to study them for survival.

Suffice it to say that the readability and affordability of this stuff is usually not aimed at the average business reader or do-it-yourselfer.

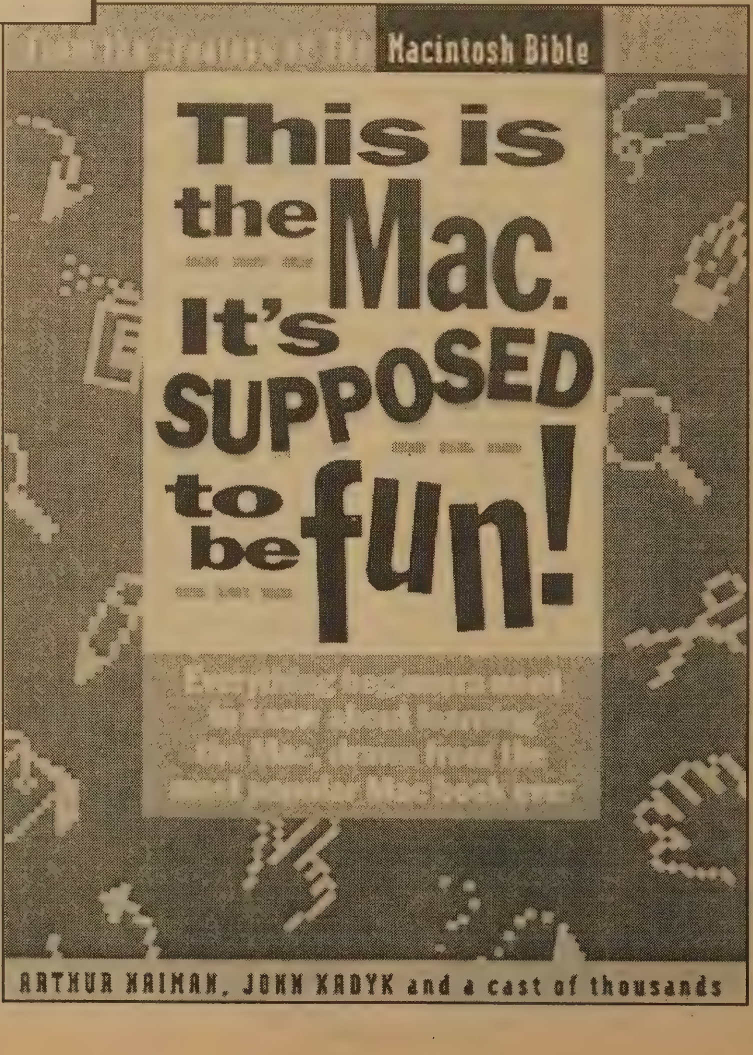
Enter *The Software Legal Book* (two hefty looseleaf volumes), offering practical, easy to understand explanations of general principles affecting software contracts, and a full volume of legal forms. Although it carries the obligatory disclaimers, it is clearly intended for enterprising nonlawyer types as well as attorneys. Basic legal and computer concepts are explained without assuming a high degree of reader expertise.

For example, if you enter into a contract to develop custom software, what warranties should the agreement include? *The Software Legal Book* gives examples of what should and shouldn't go in, and explains why.

The book reveals how to restrict transfer of proprietary rights, giving customers what they need without the developer giving away the store. Copyright and patent protection is explained and illustrated at length, as well as pointers such as how best to structure a royalty agreement.

If you're providing software of substantial importance to a customer, how do you protect source code confidentiality? The book provides specific techniques, advising which may be right for you. Even if you're not drafting an agreement yourself,

Continued on page 298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486DX-50/256C ORCHID VLB	558	718	906	956	1,026	1,078	1,246	1,286	1,306	1,322	1,378	1,578
486DX-33/256C ORCHID VLB	418	578	766	816	886	938	1,106	1,146	1,166	1,182	1,238	1,438
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486SLC2-50/64C IBM VLB	208	348	536	586	656	708	876	916	936	952	1,008	1,208
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486DX-33/128C VLB	342	488	676	726	796	848	1,016	1,056	1,076	1,092	1,148	1,348
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486DX-50/128C ISA	468	618	806	856	926	978	1,146	1,186	1,206	1,222	1,278	1,478
486DX2-50C ISA	368	518	706	756	826	878	1,046	1,086	1,106	1,122	1,178	1,378
486DX-40/128C ISA	328	462	650	700	770	822	990	1,030	1,050	1,066	1,122	1,322
486DX-33C ISA	314	454	642	692	762	814	982	1,022	1,042	1,058	1,114	1,314
486SX-33C ISA	164	318	506	556	626	678	846	886	906	922	978	1,178
486SX-25C ISA	130	280	468	518	588	640	808	848	868	884	940	1,140
486DLC-40/64C ISA	134	270	458	508	578	630	798	838	858	874	930	1,130
486DLC-33/64C ISA	120	254	442	492	562	614	782	822	842	858	914	1,114
386DX-40/64C	96	234	422	472	542	594	762	802	822	838	894	1,094
386SX-40	72	228	416	466	536	588	756	796	816	832	888	1,088
386SX-33	64	222	410	460	530	582	750	790	810	826	882	1,082

*** BASIC SYSTEM CONFIGURATION:** Motherboard & CPU. 1MB memory installed, 1:1 2HD/2FD controller with 2S/1P/1G, 1.2MB or 1.44MB Floppy Drive. Internal Clock/Calendar, Enhance Case with Power Supply, and 101-Key Enhanced Keyboard.

Happy Holiday Super Sale!

DELUXE SYSTEMS

386SX-33	$774
386SX-40	784
386DX-40/64K	794
486SX-25/128K	874
486SX-33/128K	904
486DLC-33/64K	824
486DLC-40/64K	834
486DX-33/128K	1,024
486DX-40/128K	1,014
486DX2-50/128K	1,094
486DX-50/128K	1,164
486DX2-66/128K	1,204
486 DX-33/128K EISA	1,094
486DX-50/128K EISA	1,244
486DX2-66/128K EISA	1,294
486SLC2-50/64K VLB	904
486SLC2-66/64K VLB	944
486DX-33/128K VLB	1,034
486DX-50/128K VLB	1,174
486DX2-66/128K VLB	1,214
486DX-33/256K PCI	1,254
486DX-50/256K PCI	1,394
486DX-66/256K PCI	1,444
586 Pentium VLB	2,424

SYSTEM CONFIGURATION

- Motherboard w/CPU
- 4MB RAM 70NS
- 120MB Fast Hard Drive
- 1.2MB and 1.44MB Floppy Drive
- IDE 2HD/2FD Controller w/2S/1P/1G
- 512KB SVGA Card
- 14" SVGA .28 Color Monitor
- 101-Key Enhanced Keyboard
- Enhanced Case w/Power Supply
- Microsoft Compatible Mouse w/Pad

OPTIONS

• 170MB Hard Drive	Add $45
• 200MB Hard Drive	Add $60
• 250MB Hard Drive	Add $75
• 340MB Hard Drive	Add $120
• 540MB Hard Drive	Add $320
• 14" Non-Interlaced Monitor	Add $20
• 15" Non-Interlaced Monitor	Add $120
• VLB IDE Controller	Add $20
• PCI Bus VGA Card w/1MB	Add $170
• 16BIT SVGA Card w/1MB	Add $20
• Window Accelerator w/1MB	Add $30
• Orchid Fahrenheit 1280	Add $110
• Diamond S.S. Pro VLB w/1MB	Add $70
• Orchid Fahrenheit VLB w/1MB	Add $120
• 250MB Tape Back-up	Add $130
• 16BIT Ethernet Card	Add $50
• Deluxe Speakers	Add $10
• Sony or Mitsumi CD-ROM	Add $150
• Sound Blaster Pro Deluxe	Add $110

VESA DELUXE SYSTEMS

ORCHID VLB SYSTEMS

486DX-33/256K	$1,528
486DX-50/256K	1,678
486DX2-66/256K	1,708

SYSTEM CONFIGURATION

- Orchid VLB Motherboard
- Orchid Fahrenheit VLB w/1MB
- VLB IDE Controller w/2S/1P/1G
- 4MB High Speed RAM
- 250MB Fast Hard Drive
- 1.2MB Floppy Drive
- 1.44MB Floppy Drive
- 15" Non-Interlaced Monitor
- Focus 9000 Keyboard
- Medium Tower Case w/PS

OPTIONS

• 340MB Hard Drive	Add $60
• 540MB Hard Drive	Add $260
• 17" Non-Interlaced Monitor	Add $270
• Sound Blaster Pro Deluxe	Add $110
• 250MB Tape Back-up	Add $130
• Sony or Mitsumi CD-ROM	Add $150
• Creative Labs Discovery 16 Upgrade Kit	Add $410

BEST BUY NOTEBOOKS

- 4MB RAM
- 120MB HARD DRIVE
- 1.44 FLOPPY DRIVE
- 1S / 1P
- BUILT-IN TRACKBALL
- BATTERY PACK
- CARRYING CASE

Super Sales	Mono	Dual Scan Color	Active Matrix Color
486SX-25	$1,328	$2,078	$2,798
486SX-33	1,388	2,128	2,848
486DX-33	1,588	2,278	2,998
486DX2-50	1,658	2,328	3,048
486DX2-66	1,788	2,478	3,198

UPGRADES

• Microsoft DOS 6.2	Add $50
• 8MB RAM	Add $248
• 20MB RAM	Add $1,600
• 200MB Hard Drive	Add $130
• 340MB Hard Drive	Add $330
• Internal Battery Pak	Add $95
• Internal Fax Modem	Add $124
• Pocket Fax Modem	Add $120
• Docking Station	Add $375

Why do smart customers keep buying from HI-TECH USA? Simply because we deliver the best values.

Call and join our smart customer list: ABC, ADAPTEC, ALLIED SIGNAL, AMD, AT&T, CIRRUS LOGIC, DATAQUEST, FLORIDA STATE UNIVERSITY, GENERAL ELECTRIC, IT, INTEL, LAWRENCE LAB, MAXTOR, NASA, NATIONAL SEMICONDUCTOR, PG&E, QUANTUM CORP, SEAGATE TECHNOLOGY, SIERRA SEMICONDUCTOR, STANFORD UNIVERSITY, SUN MICROSYSTEMS, U.C. BERKELEY, WESTERN DIGITAL, YALE UNIVERSITY, and many, many more.

HI-TECH USA — SEASONS GREETINGS — LOW PRICES

CASE WITH POWER SUPPLY

Mini Tower Case w/200W Power Supply	$44
Desktop AT Case w/200W Power Supply	46
Medium Tower Case w/230W Power Supply	72
Full Tower Case w/250W Power Supply	92

CD-ROM / MULTIMEDIA

Creative Labs	
Sound Blaster	$58
Sound Blaster Pro	98
Sound Blaster Pro Deluxe	103
CD ROM Upgrade Kit	328
Discovery CD 16 Upgrade Kit	406
Edutainment CD 8 Upgrade Kit	406
Edutainment CD 16 Upgrade Kit	462
Diamond Sonic Sound Card (SCSI)	226
Mediavision Pro Audio Spectrum 16	134
Orchid Soundwave Sound Card (AT)	226
Chinon CDS535 (Int.) SCSI	316
Mitsumi CD-ROM (350MS)	144
NEC CD-ROM 84 (SCSI) Internal	326
SONY CD-ROM 31A	142
TEXEL	
DM3021 (SCSI) Internal	198
DM5021 (SCSI) External	278
DM3028 (SCSI) Internal	348
Toshiba XM-3401B (200ms) SCSI	336
Trantor SCSI Host w/Driver	54
Audio Pak (Sound Card, Speaker, Joystick, Earphone)	58
Deluxe Speakers	10

CD SOFTWARE TITLES

American Business Phone Book-1992	16
Animals v1.0 DOS	14
Annabel's Dreams-Egypt	67
Arthur's Teacher Trouble	20
Atlas Pak v3.1 World/US	19
Battle Chess DOS	15
Beyond the Wall of Stars	19
Beauty & Beast MPC	12
Bring the World to Your Senses	11
Campton's Family Encyclopedia	32
Campton's Encyclopedia MPC	54
Carmen San Diego DOS	18
CD Game Pack II DOS	15
CD Storytime DOS	14
Chess master 3000 MPC	15
CIA World Fact Book DOS	16
Composer Quest MPC	23
Desert Storm MPC/MAC	16
Dictionary of the Living World	23
Dinosaur Adventure	19
Electronics Home Library	17
Family Choice/Britannica DOS	16
Family Doctor DOS/MAC	16
Family Education Collections DOS	16
Great Cities-Vol 1 / Vol 2 DOS	16
Guinness Disk of Records MPC	17
Jets & Props MPC	19
Jones in Fast Lane MPC	14
King's Quest V DOS	13
Kodak Photo CD Access	12
Language of the World	22
Library of Future 1st DOS	44
Loom From Lucas Film DOS	15
Macmillan Dictionary For Children	18
Macromedia Action for Windows	25
Mantis Experimental Fighter	15
Mario is Missing/World Atlas 3.2	15
Mavis Teaches Typing MPC	15
Mayo Clinic Family Health	16
Media Clips - 4 Pk MPC/MAC	34
Micropose Collection 4 Games	18
Microsoft Bookshelf MPC	50
Microsoft Works MPC	50
MIDI Music Shop	15
Mixed-up Mother Goose MPC	15
Monkey Island DOS	15
MPC Audubon's Birds	14
MPC Audubon's Mammals	14
National Geographic Mammals DOS	19
National Park	16
Ocean Digital Imagery VI DOS	18
PC SIG 12th Edition	22
Peter & Wolf MPC	12
Playing with Language (English)	21
Playing with Language (French)	21
Playing with Language (German)	21
Playing with Language (Japanese)	21
Playing with Language (Spanish)	21
Publish It 2.0 DOS	18
Secret Weapons/Luftwf DOS	14
Sherlock Holmes DOS	15
Sleeping Beauty	14
So Much Shareware II DOS	13
So Much Shareware III DOS	17
Sound Library MPC	11
Space Adventure	23
Space Quest IV By Sierra DOS	18
Space Shuttle	18
Sport's Best (3 in 1) DOS	18
Stellar 7 DOS	14
Survey of Western Art MPC	24
The Seventh Guest	44
The Right College	18
Time Almanac 1991 DOS	15
Time Table of History DOS	15
Tool Works Reference Library	18
Tool Works Encyclopedia MPC	38
Total Baseball DOS/MAC	16
US Atlas v3.1 MPC	14
US History DOS/MAC	16
USA Wars: Civil War DOS/MAC	24
USA Wars: Vietnam DOS/MAC	24
USA Wars: WW II DOS/MAC	24
USA Wars: Korea	24
Wild Places DOS	12
Willy Bearnish The Adventure	18
Wing Command & Ult VI DOS	15
Wizard PC/MAC	13
World Atlas v3.2 MPC	11
World View DOS	10

CONTROLLERS

IDE 2FD/2HD with 2S/1P/1G	$13
IDE with I/O for VESA Local Bus	30
Adaptec	
1542CF (SCSI)	176
1542CFK w/Kit (SCSI)	230
1742A EISA (SCSI)	318
2742 EISA (SCSI)	298
2742TK EISA (SCSI)	356
2742T EISA (Twin SCSI)	326
2842VLK EISA VLB (SCSI)	296
Asus EISA (SCSI)	258
BusLogic 445S VLB (SCSI)	260
DTC 2290 EISA IDE	118
DTC 2280 ISA IDE	16
DTC 2270 VLB IDE	86
DTC 3290 EISA SCSI	418
Promise DC-200 IDE Cache Controller	96
Promise DC-420 VLB w/512K Cache	114
Promise DC-4030 VLB IDE Cache Controller	128

HARD DRIVES

40MB 25MS / 80MB 19MS IDE	$104 / 142
120MB 19MS / 130MB 15MS IDE	146 / 160
170MB 17MS / 212MB 15MS IDE	174 / 188
250MB 15MS / 340MB 12MS IDE	198 / 254
420MB 12MS / 540MB 12MS IDE	338 / 458
200MB 15MS SCSI	228
340MB 13MS SCSI	318
540MB 12MS SCSI	468
877MB 12MS SCSI	648
1.0 GB 13 MS / 1.2GB 13MS SCSI	698 / 828
1.37GB 10MS SCSI	888
1.7GB 13MS / 2.0GB 13MS SCSI	1,098 / 1,148

KEYBOARDS

Focus	
FK2001 101-Key Click	$35
FK9000 Programmable w/Calculator.	54
Keytronics 101-Key Enhanced	27
Mitsumi 101-Key Enhanced	15
Maxiswitch 101-Key Enhanced	23
Maxipro II Programmable	53
Northgate	
OMNI 101 NI / 102	62 / 62
OMNI Ultra T or F	84

MATH COPROCESSORS

387DX-40	$52
387DX-33	51
387SX-33	50
387SX-25	48

MODEMS & FAXES

2400 Modem (w/9600 Send Fax)	$24
Fax Modem (9600 Fax/2400 Modem)	38
Fax Modem (14,400 Fax/14,400Mdm)	114
Pocket Fax Modem (14,400/14,400)	198
Hayes	
Accura 14400 Fax Modem Int	218
Accura 14400 Fax Modem Ext	244
Optima 14400 Fax Modem	358
Intel	
14.4 Fax Modem Int/Ext	168 / 188
96/96 Fax Modem Int/Ext	148 / 158
US Robotics	
Sportster 9600 Modem Int	142
Sportster 14400 Modem Int	146
Sportster 14400 Modem Ext	156
Sportster 14400 Fax Modem Int	152
Sportster 14400 Fax Modem Ext	172

MONITORS

14" Mono Amber	$78
14" VGA Mono	100
14" VGA (640•480) .51	168
14" Super VGA 1024•768 .39	188
14" Super VGA 1024•768 .28 Int	218
14" Super VGA 1024•768 .28 NI	238
15" Super VGA 1280•768 .28 NI	334
17" Super VGA 1280•768 .28 NI	598
CTX	
14" Super VGA 1024•768 .28 Int	238
14" Super VGA 1024•768 .28 NI	256
CMS1561 15" 1024•768 .28 NI	358
CMS1561LR 15" 1024•768 .28 NI	378
CPS1760LR 17" 1280•1024 MPR II	748
Hitachi	
CM1584MV 15" 1280•1024 .28 NI	444
CM2095 20" 1280•1024 .28 NI	1,264
CM2187M 21" 1600•1280 Microp	2,046
MAG	
MX15F/15F(LR) 15" 1280•1024 .28 NI	454/474
MX17F 17" 1280•1024 .26 NI (Original)	844
NANAO	
F340IW 15" 1024•768 .28 72Hz	594
F550I 17" 1280•1024 .28 NI	944
F550IW 17" 1280•1024 .28 75Hz	1,078
T560I 17" 1280•1024 .26 TRIN	1,626
T660I 20" 1280•1024 .31 72Hz	2,374
F750I 21" 1280•1024 .31 NI	2,014
NEC	
3FGe 15" 1024•768 .28 NI	570
4FGe 15" 1024•768 .28 NI	670
5FGe 17" 1024•768 .28 NI	1,050
6FG 21" 1280•1024 .28 NI	2,288
SONY	
1430 14" 1024•768 .25 NI	554
1604S 17' 1024•768 .25 NI	888
1730 17" 1024•768 .25 NI	946
17SE 17" 1600•1280 .25 NI	1,198
VIEWSONIC	
4E 14" 1024•768 .28 Int	256
5E 14" 1024•768 .28 NI	352
6E 14" 1024•768 .28 NI	276
7 17" 1280•1024 .28 NI	788
15E 15" 1024•768 .28 NI	378
15 15" 1280•1024 .28 NI	444
17 17" 1600•1280 .28 NI	958
20 20" 1600•1280 .28 NI	1,618
21 21" 1600•1280 .26 NI	1,848

MOUSE

3-Button Microsoft Compatible	$8
Logitech	
Cordless	82
Mouseman Serial/Bus	52 / 58
Trackman	74
Scanman 256	208
Microsoft Mouse Serial/Bus	33 / 58

NETWORK

8 BIT Ethernet Cards (NE1000 Compatible)	$39
16 BIT Ethernet Cards (10 Base-T/Coax)	44
16 BIT Ethernet Cards (3-in-1 Combo)	49
16 BIT Ethernet Cards (Pocket for Notebook)	124
16 BIT Busmaster (NE2100 Compatible)	80
ANSEL	
P-NS2000-BA 10 Base-2 & AUI	96
P-NS2000-TA 10 Base-T & AUI	86
P-NS2000-3 10 Base-T & 2 & AUI	108
ARCnet	
4-Port Passive Hub	12
8-Port Active Hub	102
Bus Topology 8 BIT ISA Card	40
Bus Topology 16 BIT ISA Card	46
Star Topology 8 BIT ISA Card	40
Star Topology 16 BIT ISA Card	46
BootROM	
8 BIT or 16 BIT Auto Boot PROM	12
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4-Port 10 Base T HUB	120
12-Port 10 Base T HUB	318
16-Port 10 Base T HUB	398
2 BNC Ethernet Repeater	186

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Citizen	
GSX-190 (9-Pin)	$158
GSX-230 / GSX-240 (24-Pin) Quiet	238 / 288
GSX-145 (24-Pin) Wide	358
Color Option for Citizen Printers	48/68
Panasonic	
KX-P1150 (19-Pin)	138
KX-P1624 (24-Pin) Wide	348
KX-P2180 (9-Pin)	155
KX-P2023 (24-Pin) Quiet	198
KX-P2123 (24-Pin) Color Capacity	216
KX-P2124 (24-Pin) Color Capacity	318
KX-P2624 (24-Pin) Quiet Wide	378
Color Upgrade Kit KX-PCK11	48

TAPE BACKUP

Conner 250MB Int	$116
Colorado	
DJ-10 Tape Back-up 120MB	98
DJ-20 Tape Back-up 250MB	154
KE-9 Ext. Kit for DJ-10/Dj-20	62
Tape QIC-80 3M DC2120	17
JT-10 Trakker 120MB Ext	284
JT-20 Trakker 250MB Ext	326
PT-25 Power Tape 2.4GB Int	964
PT-50 Power Tape 4GB Int	1,468
Tandberg	
1GB w/Controller (SCSI)	768
2GB w/Controller (SCSI)	878
4GB w/Controller (SCSI)	1,198

VGA CARDS

VGA256K / SVGA 512K 16 BIT	$26 / 36
SVGA 1MB 1024•768 16 BIT	56
Window Accelerators w/1MB	56
Cirrus Logic VLB w/1MB	84
Trident VLB w/1MB	74
ATI	
Graphics Ultra 1MB w/Mouse	152
Graphics Ultra Plus 2MB (ISA)	228
Graphics Ultra Plus 1MB / 2MB (VLB)	.218 / 278
Graphics Ultra Pro 2MB (ISA)	308
Graphics Ultra Pro 2MB (VLB)	314
Graphics Ultra Pro 2MB (EISA)	356
Diamond	
Speed Star Pro 1MB (ISA / VLB)	106
Stealth 24 VLB 1MB	144
Stealth Pro VLB 1MB (VRAM)	238
Stealth Pro VLB 2MB (VRAM)	308
Viper VLB 2MB	356
Genoa 8500 VLB 1MB	96
Number Nine (#9)	
Level 12 (ISA / VLB)	418
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Celsius 1MB / 2MB VLB	196 / 266
Fahrenheit 1MB (S3-801) ISA	136
Fahrenheit 1MB (S3-805) VLB	136
Fahrenheit 1MB (S3-801) VA ISA	148
Fahrenheit1MB (S3-805) VA VLB	148

TERMS AND CONDITIONS

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2. Knowledgeable technical support engineers in service.
3. Prices and availability subject to change w/o notice.
4. Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
7. No responsible for typos.
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10. Purchase orders are welcomed and subject to approval.

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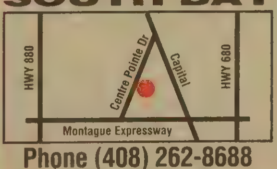

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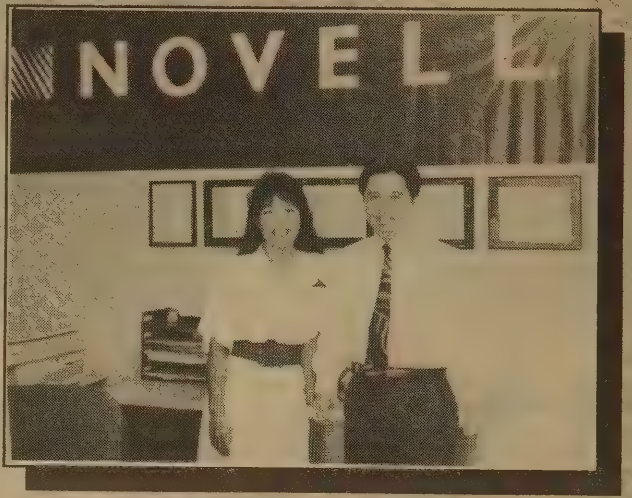

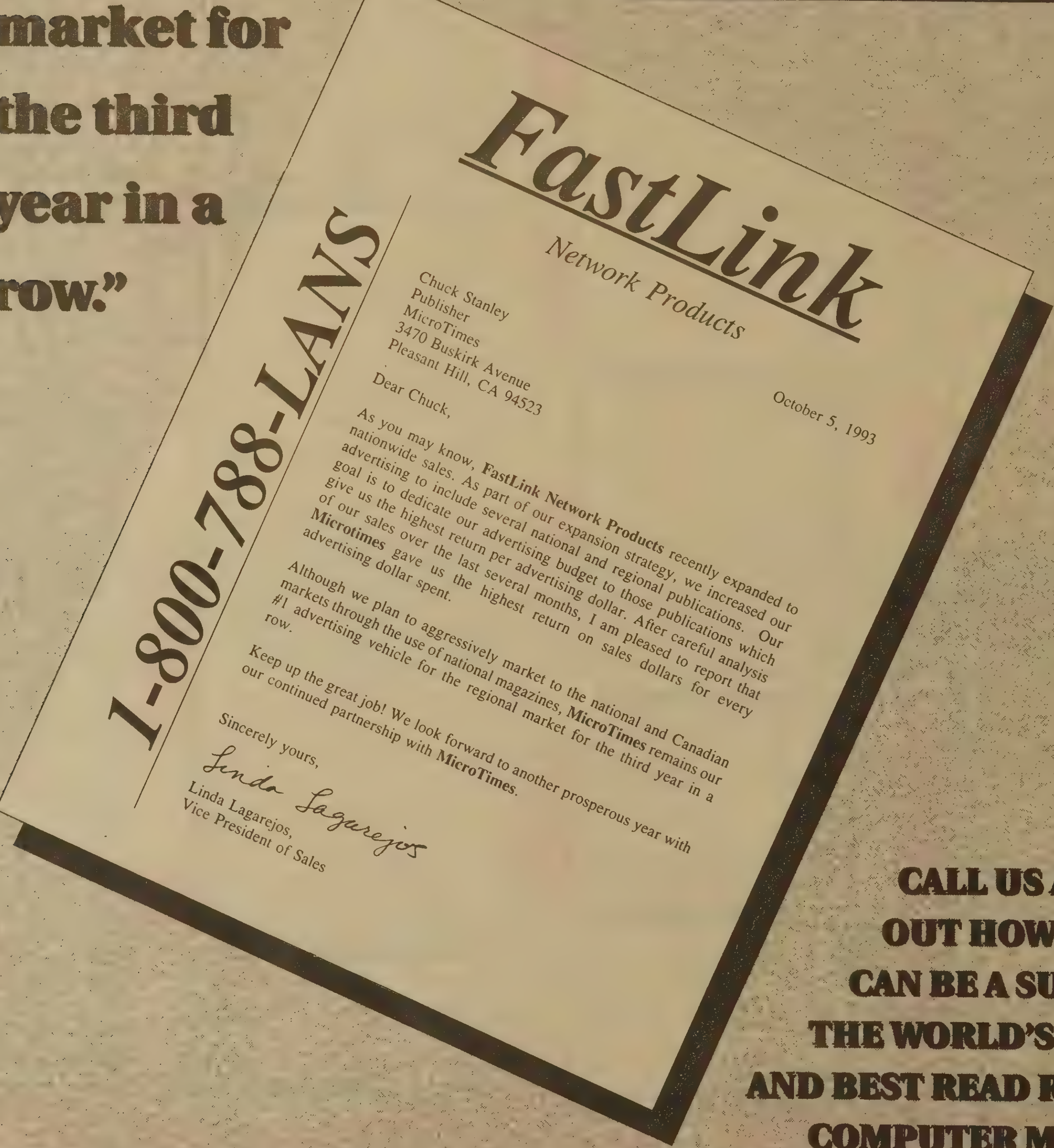

FastLink
Network Products

1-800-788-LANS

October 5, 1993

Chuck Stanley
Publisher
MicroTimes
3470 Buskirk Avenue
Pleasant Hill, CA 94523

Dear Chuck,

As you may know, **FastLink Network Products** recently expanded to nationwide sales. As part of our expansion strategy, we increased our advertising to include several national and regional publications. Our goal is to dedicate our advertising budget to those publications which give us the highest return per advertising dollar. After careful analysis of our sales over the last several months, I am pleased to report that **Microtimes** gave us the highest return on sales dollars for every advertising dollar spent.

Although we plan to aggressively market to the national and Canadian markets through the use of national magazines, **MicroTimes** remains our #1 advertising vehicle for the regional market for the third year in a row.

Keep up the great job! We look forward to another prosperous year with our continued partnership with **MicroTimes**.

Sincerely yours,

Linda Lagarejos

Linda Lagarejos,
Vice President of Sales

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PERFORMANCE · RELIABILITY · SATISFACTION · PERFECTION

QUALITY AND PERSONAL SERVICE FOREVER!

486-33
212MB HARD DRIVE
SVGA SYSTEM
- 486-33MHZ W/128K CACHE CPU
- 4MB RAM
- 212MB MAXTOR HARD DRIVE
- VIEWSONIC SVGA MONITOR
- SVGA CARD
- 1.2 & 1.44MB FLOPPY DRIVE

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

$1516

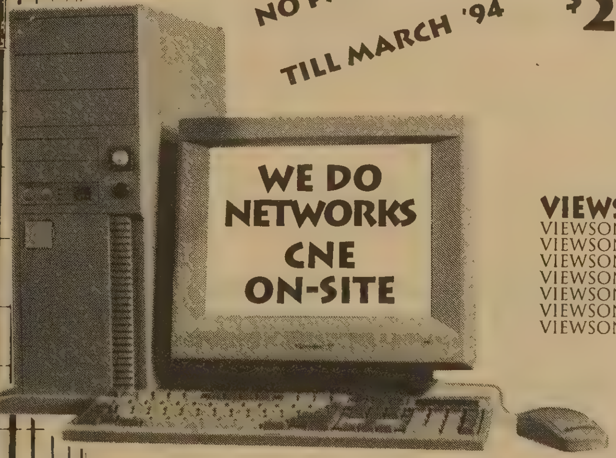
486-50 W/256K CACHE
340MB HARD DRIVE
SVGA SYSTEM
- 486-50 W/256K CACHE CPU
- 4MB RAM
- 340MB MAXTOR HARD DRIVE
- VIEWSONIC SVGA MONITOR
- SVGA CARD
- 1.2 & 1.44MB FLOPPY DRIVE

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

$1746

FREE GIFT WITH PURCHASE

NO PAYMENT TILL MARCH '94



EDDIE'S NT MACHINE
486-66 EISA/VESA
- 486-66 EISA/VESA 256K CACHE
- 16MB HIGH SPEED MEMORY
- TEAC 1.2 & 1.44 FLOPPIES
- QUANTUM 525MB 10MS SCSI HARD DRIVE
- ADAPTEC 2742 DUAL BUS EISA ADAPTER
- TOSHIBA 3401 200MS/330KB SCSI CD ROM
- SPIDER VESA WINDOW ACCELERATOR
- VIEWSONIC 15" 72HZ SVGA .28DP MONITOR
- 16550 AFN HIGH SPEED I/O PORTS
- DELUXE CASE WITH 300 WATT POWER
- 1101 PROGRAMMABLE KEYBOARD

$3784

ULTRA-CADD 486-66 VLB
245MB HARD DRIVE
SVGA SYSTEM
- 486 W/256K CACHE
- 8MB RAM
- 245MB QUANTUM HARD DRIVE

NEW VIEWSONIC 17 SVGA ULTRA HIGH 1600X1024 RESOLUTION MONITOR WITH 76HZ REFRESH RATE
- ORCHID P9000 WEITEK CO-PROC. VLB VIDEO CARD W/3MB
- 1.2 & 1.44MB FLOPPY DRIVE

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

$2968

intel inside

486-25
130MB HARD DRIVE
SVGA SYSTEM
- 486-25MHZ CPU
- 4MB RAM
- 130MB MAXTOR HARD DRIVE
- VIEWSONIC SVGA MONITOR
- SVGA CARD
- 1.2 OR 1.44MB FLOPPY DRIVE

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

$1247

COMPLETE 486 MULTI-MEDIA SYSTEM
- 486-33MHZ W/256K CACHE CPU
- 4MB RAM
- 130MB MAXTOR HARD DRIVE
- VIEWSONIC SVGA MONITOR
- SVGA CARD
- 1.2 & 1.44MB FLOPPY DRIVE
- MEDIA VISION
- PRO AUDIO SPECTRUM - 16 BIT
- TOSHIBA 3401 200MS/330KB SCSI CD-ROM
- WINDOWS 3.1

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

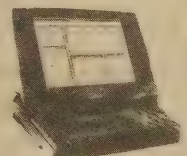
$2064

BCC NOTEBOOKS
AVANTI 486 SLC
- 486SLC/25 MHZ PROCESSOR
- 130MB HARD DRIVE
- DOS
- HIGH CONTRAST 10" DISPLAY

$1549

Color Model

$2249



VIEWSONIC MONITORS

VIEWSONIC 2	$250
VIEWSONIC 4	285
VIEWSONIC 6	305
VIEWSONIC 5E	385
VIEWSONIC V7	865
VIEWSONIC 15E	410
VIEWSONIC 15	465
17	995
20	1630
21	1925

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TRIDENT 9000	$39
TRIDENT 8900	59
SPIDER VIDEO	119
DIAMOND SPEEDSTAR PRO VLB	129
DIAMOND SPEEDSTAR 24	149
ORCHID PRO IIS	140
DIAMOND STEALTH	169
FAHRENHEIT 1280	169
ORCHID P9000	345
DIAMOND VIPER	395

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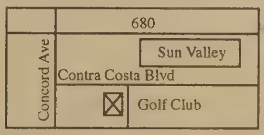

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LANtastic by ARTISOFT

LAN TIMES READERS CHOICE 1992

LAN MAGAZINE 1992 PRODUCTS OF THE YEAR

PC MAGAZINE EDITORS' CHOICE April 14 1992 LANtastic Version 4.10

HELP US CHOOSE THE NEXT

MicroTimes

ONE HUNDRED

Nominations must be received by 9 am, Wednesday, December 1, 1993.

In keeping with our time-honored tradition, our January issue will feature our annual list of leaders and unsung heroes who played a key role in the personal computer industry in 1993.

We'll have plenty of PR packets, annual reports, company backgrounders, and other or-thodox information sources to help us compile the list. But there are plenty of worthy accomplishments (to say nothing of interesting perspectives) that never show up in these sources, which is why we want to hear from you.

Tell us who you think made a difference in the industry in 1993, whether they're as well known as Bill Gates or as obscure as the garage entrepreneur down the street. Tell us *why* you think we should put them on the list, what particular accomplishment makes them noteworthy. And please tell us where and how we can contact your nominee for more information.

We will give ten free one-year subscriptions to *MicroTimes* to randomly drawn respondents to this survey, so if you'd like to enter the drawing, please be sure to include your name and address at the end of this form.

In order to be considered, your nomination must be received in our Pleasant Hill office by 9 am on Wednesday, December 1. Nominations may be sent by US Mail, fax, or electronic mail.

Thanks for your help!
—*eds.*

BALLOT

Name of your nominee: ____________________

Company affiliation: ____________________

Contact information (address, phone): ____________________

____

Why should this person be on the list for 1993?

____

____

Your name, address, and phone number (optional—required for drawing):

____

____

Send your nominations to:

MicroTimes 100 1993
3470 Buskirk Avenue
Pleasant Hill, CA 94523 **Fax: (510)934-3958**

Electronic mail:
The WELL: microx
Internet: microx@well.sf.ca.us
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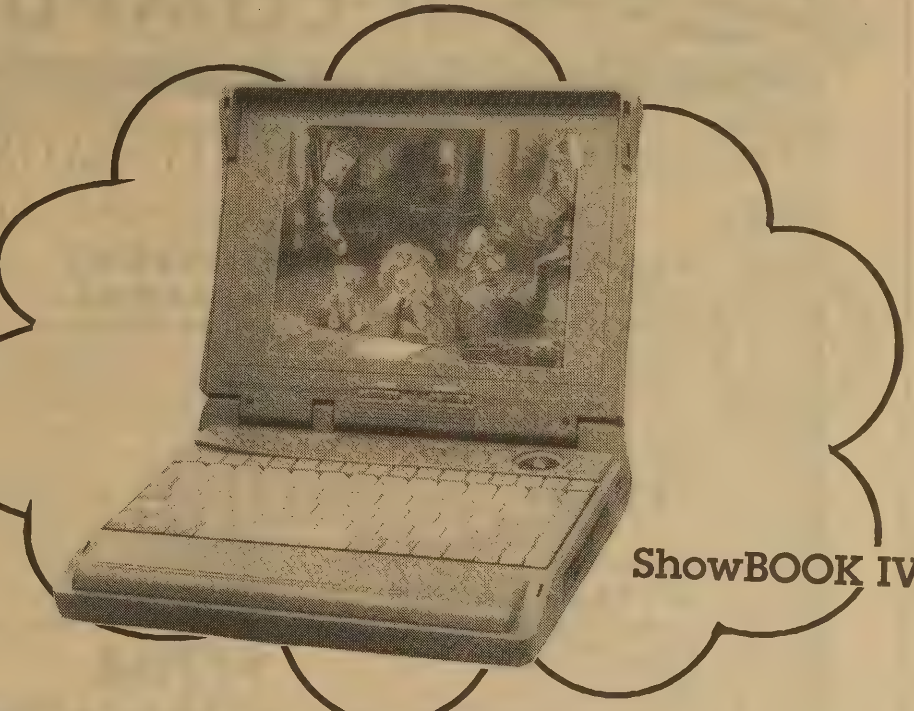
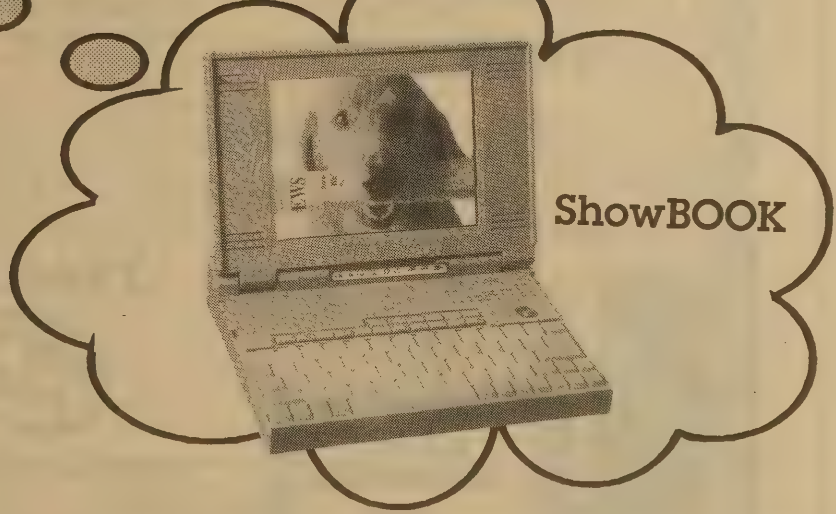
CHRISTMAS
WEDGE
SPECIAL





ShowBOOK IV: Mainframe Power w/ Expandability of VESA Desktop

- ShowBOOK IV with Intel 80486-33DX up to Intel 80486-66DX2
- 4MB, expandable to 20MB
- LOCAL BUS VIDEO
- 128KB External Cache (Optional)
- Built-in 16mm Trackball
- Simultaneous Internal & External Display and Keyboard
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  - Two 32-bit VESA LOCAL BUS Slots and Four 16-bit ISA Slots
  - One 5.25" and One 3.5" Drive Bay
  - Built-in SCSI Controller, 2 Serial, 1 Parallel, 1 Keyboard, 1 Video port

Intel 486-33DX
4MB, 80HDD
ONLY
$1,865.00

ShowBOOK: THE NOTEBOOK THAT KEEPS GOING & GOING...

- DUAL BATTERY Compartment
- 4-6 Hours battery life per charge
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- 80486SLC-33MHz Notebook
- Best design Trackball with 2 buttons
- Graphical LCD System Indicator
- 2MB expandable to 8MB
- 80/120/200MB HDD and 1.44MB 3.5" FDD
  Serial, Parallel, External CRT and K/B port
- ONLY 3.7 Lbs, with 2 batteries only 5.5 Lbs
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- Internal 9600/2400 Fax/Modem (Optional)
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486-33MHz, 2MB,
80HDD
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486-33
212MB HARD DRIVE SVGA SYSTEM

- 486-33MHZ W/128K CACHE CPU
- 4MB RAM
- 212MB MAXTOR HARD DRIVE
- VIEWSONIC SVGA MONITOR
- SVGA CARD
- 1.2 & 1.44MB FLOPPY DRIVE

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

$1516

486-50 W/256K CACHE
340MB HARD DRIVE SVGA SYSTEM

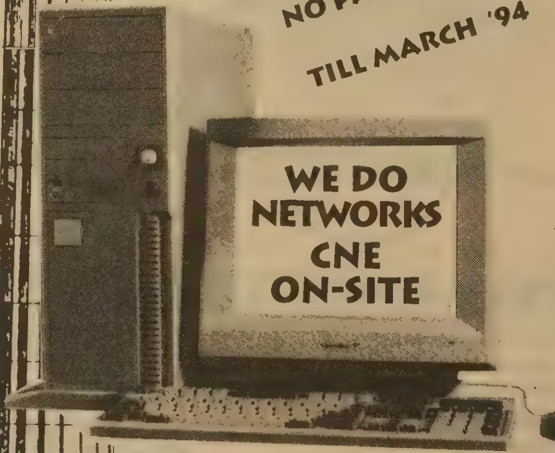
- 486-50 W/256K CACHE CPU
- 4MB RAM
- 340MB MAXTOR HARD DRIVE
- VIEWSONIC SVGA MONITOR
- SVGA CARD
- 1.2 & 1.44MB FLOPPY DRIVE

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

$1746

FREE GIFT WITH PURCHASE

NO PAYMENT TILL MARCH '94



EDDIE'S NT MACHINE
486-66 EISA/VESA

- 486-66 EISA/VESA 256K CACHE
- 16MB HIGH SPEED MEMORY
- TEAC 1.2 & 1.44 FLOPPIES
- QUANTUM 525MB 10MS SCSI HARD DRIVE
- ADAPTEC 2742 DUAL BUS EISA ADAPTER
- TOSHIBA 3401 200MS/330KB SCSI CD ROM
- SPIDER VESA WINDOW ACCELERATOR
- VIEWSONIC 15" 72HZ SVGA .28DP MONITOR
- 16550 AFN HIGH SPEED I/O PORTS
- DELUXE CASE WITH 300 WATT POWER
- 1101 PROGRAMMABLE KEYBOARD

$3784

ULTRA-CADD 486-66 VLB
245MB HARD DRIVE SVGA SYSTEM

- 486 W/256K CACHE
- 8MB RAM
- 245MB QUANTUM HARD DRIVE

NEW VIEWSONIC 17 SVGA ULTRA HIGH 1600X1024 RESOLUTION MONITOR WITH 76HZ REFRESH RATE

- ORCHID P9000 WEITEK CO-PROC. VLB VIDEO CARD W/3MB
- 1.2 & 1.44MB FLOPPY DRIVE

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

$2968

486-25
130MB HARD DRIVE SVGA SYSTEM

- 486-25MHZ CPU
- 4MB RAM
- 130MB MAXTOR HARD DRIVE
- VIEWSONIC SVGA MONITOR
- SVGA CARD
- 1.2 OR 1.44MB FLOPPY DRIVE

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

$1247

COMPLETE 486 MULTI-MEDIA SYSTEM

- 486-33MHZ W/256K CACHE CPU
- 4MB RAM
- 130MB MAXTOR HARD DRIVE
- VIEWSONIC SVGA MONITOR
- SVGA CARD
- 1.2 & 1.44MB FLOPPY DRIVE
- MEDIA VISION
- PRO AUDIO SPECTRUM - 16 BIT
- TOSHIBA 3401 200MS/330KB SCSI CD-ROM
- WINDOWS 3.1

COMPLETE SYSTEM WITH DELUXE CASE AND KEYBOARD

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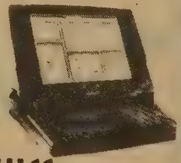
BCC NOTEBOOKS
AVANTI 486 SLC

- 486SLC/25 MHZ PROCESSOR
- 130MB HARD DRIVE
- DOS
- HIGH CONTRAST 10" DISPLAY

$1549

Color Model

$2249



VIEWSONIC MONITORS

VIEWSONIC 2	$250
VIEWSONIC 4	285
VIEWSONIC 6	305
VIEWSONIC 5E	385
VIEWSONIC V7	865
VIEWSONIC 15E	410
VIEWSONIC 15	465
17	995
20	1630
21	1925

VIDEO GRAPHICS

TRIDENT 9000	$39
TRIDENT 8900	59
SPIDER VIDEO	119
DIAMOND SPEEDSTAR PRO VLB	129
DIAMOND SPEEDSTAR 24	149
ORCHID PRO IIS	140
DIAMOND STEALTH	169
FAHRENHEIT 1280	169
ORCHID P9000	345
DIAMOND VIPER	395

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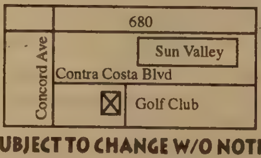

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LAN TIMES READERS CHOICE 1992

PC MAGAZINE EDITORS' CHOICE

Start your Christmas Shopping for your favorite Techie at HSC!

...or be your own Santa Claus at our Stocking Stuffer Sale! From Dec. 6 to Dec. 24, lots of popular items in all price ranges will be featured at special holiday prices -- Stop in and see!

Diskette Bins!

Here's something that anyone with a computer never seems to have enough of...diskette storage bins! Take your pick of either the 50-disk capacity 5.25" unit or the 40-disk 3.5" model at this great low price. Also available (not shown), 18-disk capacity stackableblack plastic CD rack.

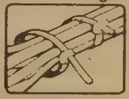
5.25" Model	**HSC# 14499**
3.5" Model	**HSC# 14500**
CD Rack	**HSC# 14501**

Reg. $3.50, Your Choice

$2.49

Tie-Wrap Special!

5" Natural Color (Ivory)
Nylon wire bundling ties, 1000-pack,
HSC#14455 Reg. $15.95



Sale!

$7.50

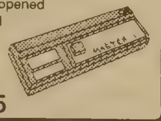
Speaker Wire Special!

High quality fine-strand copper wire, color-coded for easy installation, clear vinyl insulation, various sizes.

HSC#	Size/length	Reg.	Sale
SPW-12/25	12AWG/25ft.	$8.95	$6.95
SPW-14/25	14AWG/25ft.	$6.95	$3.95
SPW-16/50	16AWG/50ft.	$7.45	$4.95
SPW-18/50	18AWG/50ft.	$3.25	$2.50

Russian Dosimeter

These pocket-sized (5" x 1.75" x .75") units count gamma radiation exposure from .01 to 9.99 micro-Siewerts per hour (One micro-Siewert = 100 micro-Roentgens). According to the instructions, the maximum admissable safe radiation level is .1 to .6 µSv/h. The instrument uses four commonly available button cells (Russian ones included) that are supposedly good for about 2 years of use four times a day. We opened one of the units up and were interested to find Russian IC's inside!



HSC# 80123

~~$29.95~~ $19.95

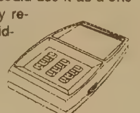
Video Processor!

Enhance your video productions without cleaning out your wallet! Four color controls allow you to adjust "sunlight" (brightness), color saturation (really gives life back to washed-out videos), flesh tones and color tint (useful for videos taped with a camera that did not have color balance set). Two other controls let you adjust image resolution and picture sharpness, while a pair of controls let you suspend the processing so you can see the effect of what your are adjusting. Switchable between two different inputs (video only, not RF). Inputs and outputs are RCA jacks. New in box with manual, 90 day warranty.

HSC# 13978 ~~$49.95~~ **$39.95**

One-trick Phone Friend

This little novelty was meant as an easy-access dialer for one of the off-brand long distance services. You can't change the pre-programmed access codes, but it will remember the last number you dialed with it, so you could use it as a one-number (16-digits) memory re-dialer. Handy for those mid-night overseas calls! Uses three button cells which might need replacing.



HSC# 14438 ~~$4.95~~

$3.95

Computer Parts

Full-size AT-style case with slide cover over the drive fronts, brand new with hardware kit, takes standard AT power supply (not included), room for up to five half-height drives, 16.5" x 6" x 21"

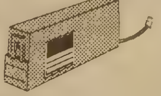
HSC# 14433 ~~$19.95~~ $9.95

Standard XT-style power supply (not for case above, only for XT desktop cases), 135W, new, 90 day warranty

HSC# 14046 ~~$17.50~~ $14.95

Easy Laser Deal!

Finally, a Helium-Neon (red) laser for those who are shy about handling high voltage, or those who just don't have time to mess around with matching tubes to power supplies... a self-contained tube/power supply unit that runs off low voltage! Just give it 900 mA of 12VDC and you get 1mW of red beam out! Plastic case is 6.25" x 1.25" x 2.25" with 2" power lead. Probably pulls but all are tested good. Great beam quality!



HSC# 14475

~~$69.95~~

$59.95

Stop by one of our stores to finish Christmas Shopping for that Hardware Hacker on your list! Many more specials in each store...too many to list! Can't make up your mind? Gift Certificates are available! Free gift for yourself with each Gift Certificate bought!

Computer Mini Tower Case & 200W Power Supply

Fits most 286, 386 & 486 Motherboards, room for 5 drives

Model #CS20MT Reg. $61.00

Sale Price!

$45.00

Hard Disk Controller Special!

OMTI 8240 by SMS controls up to two MFM drives with 1:1 Interleave, as well as two floppy drives. Full-length AT-style board, new with installation instructions. MFM Controllers are not being made anymore!

HSC# 14539 Reg. $39.95

$29.95

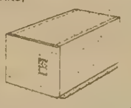
Unique! Peltier Devices

Electronic cooling elements...apply voltage (3 - 12VDC) and one side gets cold while the other gets hot! Pumps up to 65° C temperature differential with proper heat sink! With spec.sheet.

HSC# 80121	1.17" square	$17.50
HSC# 80122	1.56" square	$27.50
HSC# 14067	Heatsink	$1.95

Computer Protector!

Better protection than a surge suppressor! These SOLA MCR500 voltage regulators regulate line fluctuations of ± 15% to within 3%. Provides 500VA of sinusoidal output within NEMA voltage specification with an input voltage as low as 65% of nominal! Surge suppressors can't *raise* low voltage in brown-out situations! Filters out spikes, noise and other transients, and the load is isolated from the power line. Used units, 40 lbs., 17" x 8.5" x 8.5", four grounded AC outlets, heavy line cord, circuit breaker.



HSC# 95792

~~$95.00~~ $85.00

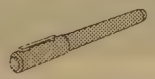
Laser Pen

You've seen these advertised before at $175, or maybe $150... but now HSC is able to offer the latest high-tech gizmo at a more affordable price! Solid state laser diode puts out 4mW at 660 - 680 nM (visible red) wavelength. Uses two AAA cells (included) and comes in a handsome velvet presentation case with 1 year warranty.

HSC# LDP BLACK

~~$97.95~~

$89.95



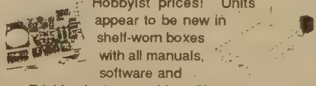
Solar Panels 20% off!

Amorphous Silicon on Glass--connect multiples in parallel for increased current output. New!

HSC#	Size	Output VDC	Sale Price
80120	12" x 6"	12 @ 125mA	$11.95
80024	12" x 12"	20 @ 150mA	$23.95
80025	12" x 36"	20 @ 450mA	$63.95

Modem Madness!

Large selection of Hyundai Modems available at Hobbyist prices! Units appear to be new in shelf-worn boxes with all manuals, software and RJ-11 telephone cable. Cheap way to explore the world of on-line services!



HSC#	Desc.	Reg.	Sale
14550	1200BPS Internal	$9.95	**$5.00**
14549	1200BPS External	$12.95	**$10.00**
14548	2400BPS Internal	$19.95	**$15.00**
14547	2400BPS External	$24.95	**$20.00**

More Modem Madness!

Perfect for the experimenter or handyman! Fully assembled and working Everex modems (and FAX/modems) in PC Board form...just add power adaptor and make a case! FAX/Modem comes with software, all have connection diagram.

HSC#	Desc.	Price
14467	2400BPS Modem	$8.95
14505	1200BPS Modem, 4800BPS FAX w/ software	$14.95
14506	9600BPS Modem	$19.95
14041	AC Adaptor for #14467(needs different plug soldered on)	$1.50

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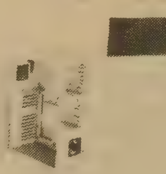
4837 Amber Ln., Sacramento, CA 95841 (916) 338-2545
6819 Redwood Dr., Cotati, CA 94931 (707) 792-2277

These are just a few of the dozens of Holiday Specials we will be featuring in our stores...Prices above are good only from Dec. 6 through Dec. 24, some items may have purchase limits!

Terms: Some quantities limited; all items subject to prior sale. **Minimum order: $10.00 plus shipping.** Orders under $20.00 subject to $2.00 handling fee, in addition to shipping. All orders shipped FOB Santa Clara, CA (this means you pay freight!) by UPS Surface (no P.O. Boxes) unless otherwise specified, in which case prevailing carrier rate plus $5.00 handling fee applies. Prepaid orders that don't include shipping charges will be shipped freight COD. There is a $4.00 UPS charge added to shipping charges for COD shipments. If you have questions about your order, please call Customer Service at (408) 732-1854 M-F 9AM to 5PM PST.

SPECIAL



Dual cooling fans, Easy Access swing open side doors, Slide 'n Snap drive rails, 4 exposed and 3 hidden drive bays, 230W UL power supply.

$147

upgrade to 250W UL PS	ADD $10
upgrade to 300W UL PS	ADD $25
Medium Size w/230W UL	**$120**

EVERYDAY LOW PRICES

CASES & POWER SUPPLIES

DELUXE Full-208GT (2 FANS, Easy Access Side Doors, 4 Exp'd, 3 hid'n, 230W UL)	$149
Mini-104T (4 exp'd, 1 hidden, 200W PS)	49
Med-106T (5 exp'd, 3 hid'n, 200W UL PS)	75
Full 108T (4 exp'd, 7 hid'n, 230W UL PS)	99
Full-42T (4 exp'd, 5 hidden, 220W UL PS)	80
Full-51T (7 exp'd, 1 hidden, 220W UL PS)	95
Mini- V103T (4 Exp'd, 5 Hidden, 220W PS)	70
Desktop- S203D (4Exp'd, 2 Hidden, 200W PS)	75
Desktop- K101D (1Exp'd, 2 Hidden, 100W PS)	80
Desktop- K101D (1Exp'd, 1 Hidden, 60W PS)	80

POWER SUPPLIES

Full PS 230W UL/250W UL/300W UL	$49/59/77
Baby PS 200W /200W UL/230W UL	37/41/45

FLOPPY, HARD, TAPE, & CD-ROM DRIVES

TEAC 1.2MB/1.44MB FDD	$46/39
All Hard Drives	CALL
Colorado 120/250MB Tape Drive	139/179
Sony CD-ROM (31A) w/Controller	189
Toshiba 3401B/3401E CD-RIN (Int/Ext)	415/535
w/Controller	ADD 70
NEC CDR 74/84-1 CD-ROM (Ext/Int)	580/439
Media VisionFusion CD-16 upgrade kit	CALL
NEC Multimedia Upgrade Kit (Int/Ext)	895/995
Sound Blaster Pro Multimedia Kit w/6 CD Titles (Int/Ext)	510/520

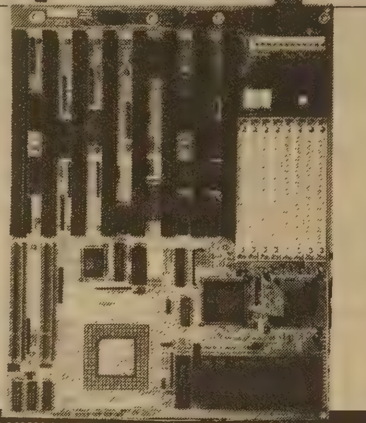
VGA CARDS

MGP/MCGP Card	$13/19
ACUMOS SVGA Card 256/512K	31/41
TRIDENT SVGA Card 1MB	54
Diamond SpeedStar 24X 1MB 16 Mil Colors	145
Diamond Stealth VRAM 1MB Hi-Color	199
Diamond Stealth-24 DRAM 1MB ISA/VLB	157/175
Diamond Stealth Pro VRAM 1MB/2MB VLB	255/355
Diamond Viper (P9000, 2MB VRAM)	385
ATI Graphic Ultra Plus2 VRAM/w mouse	277/307
ATI Graphic Ultra Pro VRAM 2MB ISA/VLB/EISA	330/345/399
Genoa 7900 1MB 16 Mil Colors 24 Bit	109
ORCHID Pro-Designer II's 1MB Hi-Color	129
ORCHID Fahrenheit 1MB 24-Bit VLB/VA	159/189
Spider/Black Widow VLB 1MB	95/209
AMI Fast View EISA VGA Graphics 1MB	269
AMI Fast View P9000 VLB 2MB	395

BIG SALE

★ GREEN PC COMING SOON! ★

Lynx's Users: IBM, Intel, NASA, AT&T



PRESENTING LYNX GALAXY 486VL BUS

DESIGN / MADE IN USA
FCC CLASS B
ONE BOARD FITS ALL
(Dealers Welcome)

CONTAQ chipset and new AMI BIOS
8x16 bit slots (include 2x32 bit VLB slots)
Supports Intel, AMD & Cyrix CPU's (all speeds)
100% Compatible w/ DOS, OS/2, XENIX, UNIX, NOVELL NETWARE, Win. NT

0K/128K/256K $98/118/135

LYNX VLB	Board & CPU	Basic System	LYNX VL	Board & CPU	Basic System
486DX2-66/128K	$569	$729	386DX-40/64K	$118	$278
486DX-50/128K	529	689	386SX-33	84	244
486DX2-50/128K	429	589	IBM SLC2-50 VLB/64K	225	385
486DX-33/128K	395	555	IBM SLC2-66 VLB/64K	265	425
486SX-25/128K	199	359	486 EISA/VESA	CALL	CALL

Basic system includes: Board & CPU, 1MB RAM, One Teac Floppy, IDE Controller, 101 Enhanced Keyboard, Mini Case w/200W PS, 2 Serial, 1 Parallel, 1 Game ports

LYNX 486 Deluxe VLB CAD Systems

LYNX 486SX25/SX33	**$1124/1299**
LYNX 486DX33/DX50	**$1479/1619**
LYNX 486DX2-50/DX2-66	**$1509/1649**
IBM SLC2-50/SLC2-66 VLB	**$1309/1365**

System Configuration:

- LYNX VLB Board w/256K & Intel CPU or IBM Alaris VLB w/64K & SLC CPU
- Spider VLB SVGA Card (1MB)
- VLB Multi-IDE-I/O Card
- 4MB High Speed SIMM
- 255MB Fast IDE Hard Drive
- TEAC 1.2MB &1.44MB Floppy Drives
- 15" Non-Interlaced SVGA Monitor
- Maxiswitch Deluxe Keyboard
- Medium Tower Case w/250W PS

Options:

1 Upgrade Memory & Hard Drive	Call
2 NANAO F550i (2nd)	Add $679
3 NEC 5FGE (17")	Add $759
4 Viewsonic V7/V17 (17")	Add $519/669
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Volume 1 Number 6
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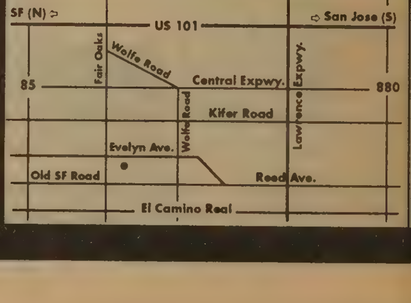

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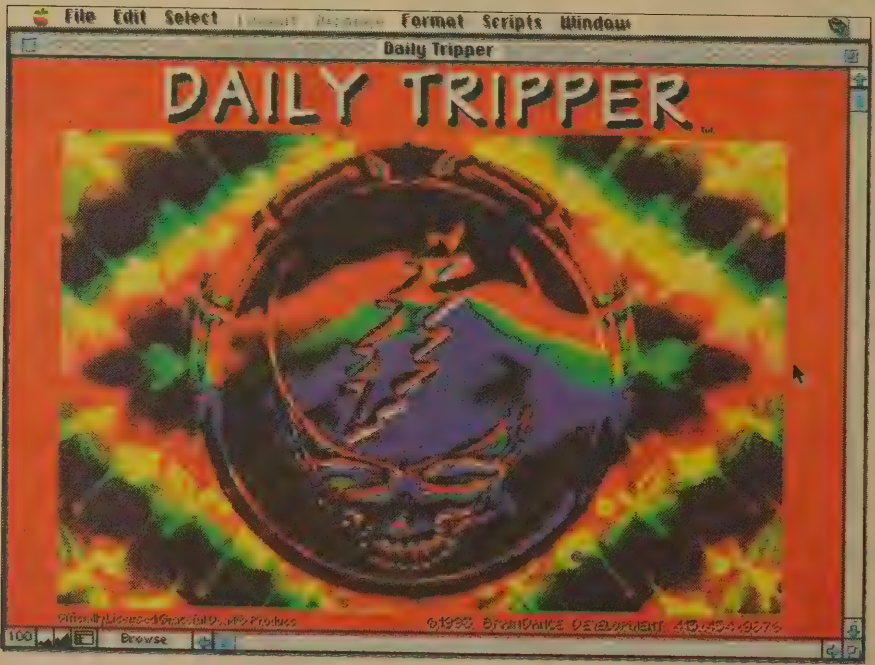
Daily Tripper

Multimedia Personal Information Management, Not For Deadheads Only

BY MARY EISENHART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Daily Tripper
DAILY TRIPPER
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It could reasonably be argued that nobody really *needs* a multimedia product to organize their daily lives—on the other hand, nobody really *needs* Far Side calendar software and Star Trek screen savers either, but mundane information management is often enhanced by a little coolness.

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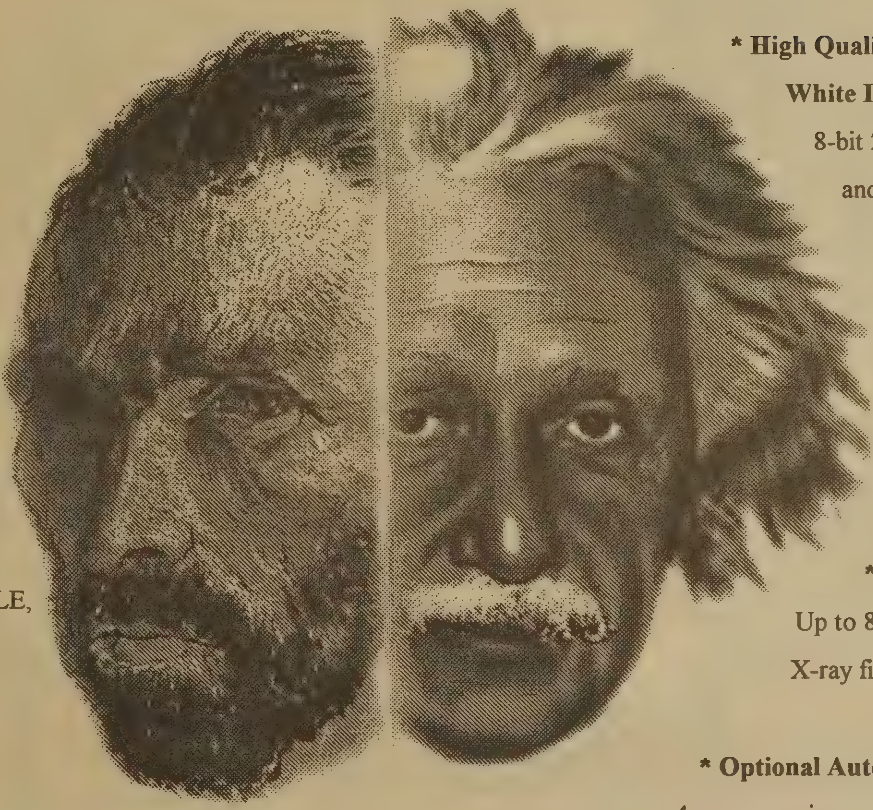

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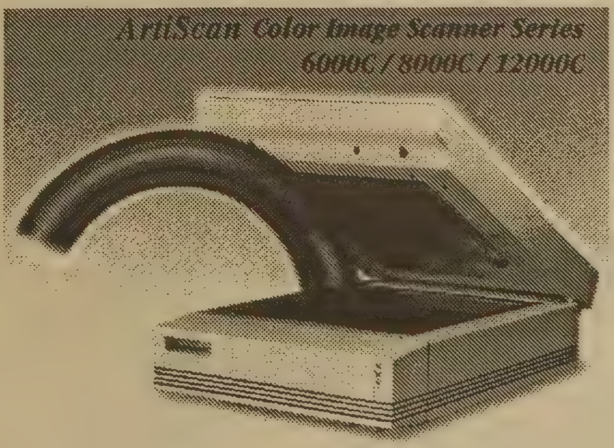

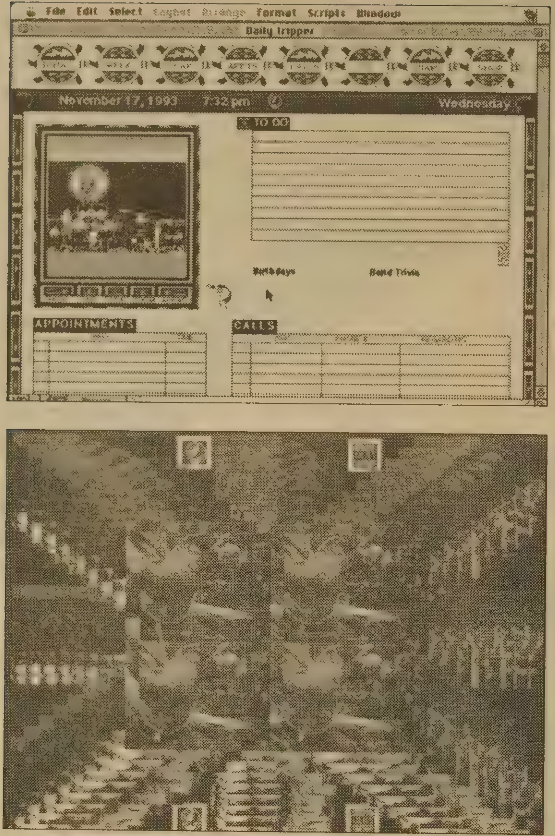
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Daily tripper
November 17, 1993 7:32 pm Wednesday
TO DO
Birthdays
Band Trivia
APPOINTMENTS
CALLS

Daily Tripper lets you go from calendar to light-show-on-the-desktop with a couple of mouse clicks.

Somehow it's not surprising that when a multimedia PIM came along, it would be aimed at a target market of Grateful Dead fans—who, when not following the band around on tour, often find themselves with law practices and accounting firms and consulting businesses to run, and a certain lack of enthusiasm for the same old boring daily planners.

GD-licensed Daily Tripper, available in Mac and Windows versions, is a FileMaker Pro template with a full range of the usual organizing features—daily, weekly, and full-year calendar views; to-do lists; addresses and phone numbers; even shopping lists. It requires FileMaker Pro v2 to run—but thereby takes advantage of the Claris product's power and ease of use. While many will find it useful as a discrete product, it can also be used in conjunction with other FileMaker databases; information can be linked or imported or exported, layouts can be customized, etc. You can, of course, print out your daily schedule or grocery shopping list or phone messages.

BEYOND BORING

There are plenty of good information managers out there, and as hordes of users can attest, FileMaker is a great tool all by itself. What makes Daily Tripper interesting is its use of FileMaker's built-in but rarely used graphics and multimedia capabilities.

When you open up the program, you're presented with today's date and the Band Photo Of The Day. The program includes over one hundred color images, some with QuickTime animations. If you want something a little livelier, a menu of Director movies is a double-click away—you can get your own private light-show extravaganza while you're on the phone, then return to scheduling your meeting. If you want your calendar to sing "Scarlet Begonias," this can be arranged.

None of this approaches state-of-the-art sound or video quality, and the color photos are 72dpi, 256-color scans. The inherent limitations of QuickTime—jerky motion and low-res images—are much in evidence.

But even in its first (1993) version, the product is not only entertaining, it's a useful and well-thought-out alternative to more mundane planners. The program is continuously evolving, and the 1994 version promises new features and enhancements.

BUT I CAN'T STAND THE DEAD. WHY SHOULD I CARE ABOUT THIS?

Indeed, there is more to life than Jerry on the desktop. Reflecting this fact, Daily Tripper is completely open-ended, allowing users to create their own layouts, add their own graphics and animations, etc. If you don't like those tie-dye buttons, scan in some other texture and make your own.

Picture if you will an entire network of happy FileMaker users, each using their own customized version of Daily Tripper. Jeff takes notes on client calls in progress while gazing fondly at an onscreen photo of his two-year-old. Joan's calendar opens up with a rousing chorus of "Go Niners!" and historic Joe Montana footage. The boss gets into the act, presenting each laptop-using outbound sales rep with a Tripper version—with daily soundbites exhorting them to glorious achievements and QuickTime movies of wildly positive spreadsheets. (The boss, being no fool, password-protects the layouts so nobody replaces the inspirational content with Beavis and Butt-head.)

Picture the doting grandparents starting each day with a different Kid Pix masterpiece from the grandchildren. Consider some of the club directories and interactive brochures-on-disk that might result.

The FileMaker wizard can do all this from scratch, but some of the rest of us would derive much benefit from being able to refer to, copy, and customize Tripper's scripts and layouts instead. Indeed, the program serves as an excellent window on FileMaker capabilities that aren't so dramatically evident in the manual—it's an invitation to experiment and have fun.

WHAT YOU'LL NEED

Like FileMaker itself, Daily Tripper is available in Mac and Windows versions. Like most multimedia toys these days, this one has pretty formidable hardware and software requirements: in addition to FileMaker Pro 2.0, on the Mac you'll need a 68030 or higher processor, 8-bit color and at least a 13" monitor, System 6.0.7 or higher, 4MB of RAM, and QuickTime. The Windows version requires Windows 3.1 or higher, FileMaker, 5MB of RAM, a VGA adapter and color monitor, and QuickTime for Windows.

These are minimum configurations—more memory is definitely a plus, here as elsewhere. You'll also need a high-density disk drive on either platform, not to mention a lot of hard disk space—the Mac version of the program comes in a compressed Self-Extracting Archive on two high-density floppies, and expands to well over 7MB. That's *before* you put in any of your own data.

On the other hand, there are plenty of games these days that are a lot more resource-hungry, and you can't keep your expense reports on them.

Certainly this product would be a perfect gift choice for the FileMaker-using Deadhead on your holiday list. But beyond its obvious target market, it's deserving of attention as a pointer to, and early implementation of, some of the everyday possibilities of multimedia. ■

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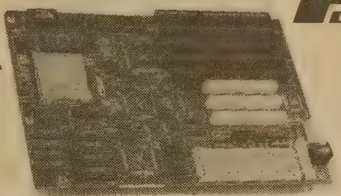

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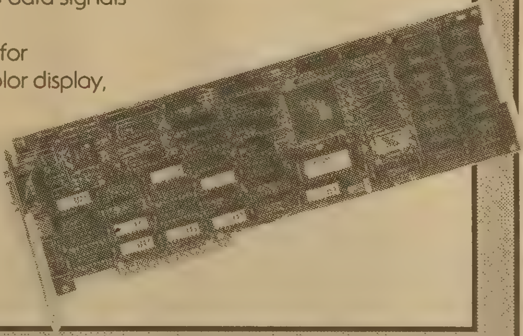

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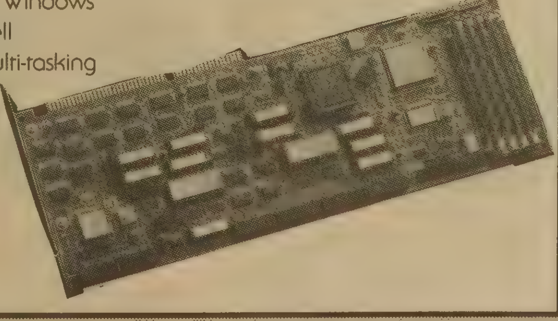

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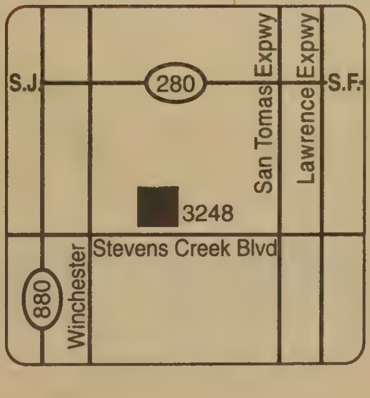

Multimedia Gifts

For The Practicing Or Prospective Artist

BY TONY REVEAUX

What is the best present you could give to a friend who wants to get into multimedia? Why, talent, of course! ...Oops, I can't seem to find any *talent* packages around anywhere. What's the matter with those Artificial Intelligence guys, anyway?

But the next best things to talent are knowledge and skills. A multimedia project, by its very nature, is a compound structure made up of different applications and elements: graphics, sound, animation, photos, motion, and text. It's as if you were building a house by yourself and had to be equally proficient in design, foundation, carpentry, plumbing, and electric.

In the last five years, the opportunities to learn multimedia in the classroom have greatly expanded; you can take classes at San Francisco State University's Main Campus and Downtown Center, or at other, private venues where you can take one class or study in an extended program. Other resources can be even closer to hand for your personal instruction: books, tapes, and discs for the Macintosh that show you how to learn multimedia—at your own pace and in the privacy of your home—through examples and demonstrations of multimedia.

DIRECTOR ON VIDEOTAPE

"Master Macromedia Director 3.1: Essential Techniques, Tape 1" by Charles Wyke-Smith is a ninety-minute VHS videocassette available from Multi-Facet Communications for $49.95. Wyke-Smith is a partner of San Francisco-based PRINTZ Electronic Design, and he genially leads you through each step of the way, narrating over the real-time desktop procedures.

His descriptions and pacing of the sequences of actions are easy to understand and to follow. He covers the windows and other parts of Director, how to create animation, film loops, ink effects, importing, and building a presentation. More tapes are planned for the series. Tapes 2 and 3 will demonstrate in-depth creation of graphics in Paint window, Cast and Palette management, learning Lingo (Director's scripting language), and learning how to design and create interactive presentations.

Even on my Sony 20XBR monitor, the text on menu selections and Director windows was not very legible. This is not always a drawback, since the author is

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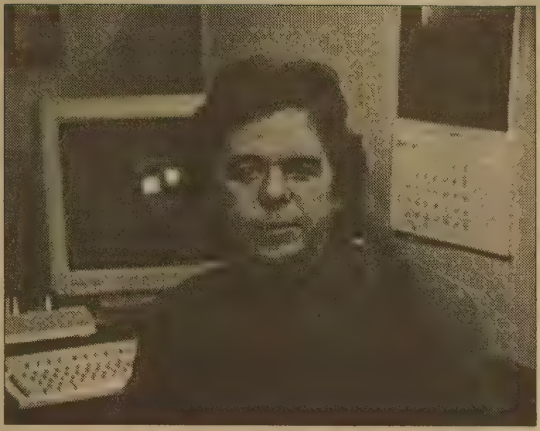

Master Macromedia Director 3.1:Essential Techniques, Tape 1 by Charles Wyke-Smith.

always describing the selections, and you will be referring to your documentation and your own on-screen actions. In these videos, it would be helpful to include an insert window that would reveal the off-screen keyboard selections for each action, even though they are always described by voice.

Of course, the best way to view this tape is not just on the VCR in your living room, but also on your computer screen. If you are already sufficiently into desktop video enough to have a video capture board, or one of Apple's new AV line of computers such as the Centris 660 AV or Quadra 850 AV, you can watch it on the monitor in a window size of your choice, using a RasterOps 24XLTV video capture board outputting to a second Apple RGB monitor. With RasterOps' MediaGrabber utility, I can capture frames of choice from the PRINTZ tape for further study and comparison.

DIRECTOR ON DISC

Tony Bove and Cheryl Rhodes are desktop multimedia pioneers. Publishers of the newsletters *Inside Report on NewMedia* and the *Macromedia Developer Letter,* they have transformed one of their books, *Using Macromedia Director,* to CD-ROM. But not only is it on CD, the text is in Voyager's Expanded Book Format, and there is a great selection of illustrations and animations. The disc ($49.50) includes a copy of the latest version of HyperCard, which is the foundation for Expanded Book and some of the examples.

Since this is an Expanded Book, you can search text, read page-by-page or access by number, mark passages and pages, cut and paste, and type in your own margin notes. This is a much more readable and researchable format than even the best word processor.

The classic paper book, by Que, certainly has many illustrations and examples, but here, they sing and dance, in black-and-white and in color. You don't need to have the Director application to run these animations; HyperCard and the Macromedia Director Player on the disc allow you to open and run them, and even, as in some of Stuart Sharpe's classy artistry, click on and interact with them.

The authors cover all the essentials and offer an overview of Director's possibilities. Their first chapter, "Introducing Multimedia," considers the entire multimedia creation and development environment, with all the hardware, software, and peripherals you will need to get started. Getting into the program, "Using the Overview," "Using the Studio," "Painting Techniques," "Animation Techniques,""Interactive Media Techniques," and "Using Audio and Video" thoroughly cover, in an accessible style, the multipath way to multimedia on the Macintosh.

3-D TUTOR

This $119.95 CD-ROM from Zelos! is a jewel. Not only does it give you previews and overviews of almost (what happened to Swivel?) all of the major 3-D modeling and creation applications for the Mac, but—as a multimedia production—it is a shining example of good interface design. Not only is there different music over many of the examples, but you can go to the music menu to play them and access the credits and contact information for the composers.

3-D Tutor shows demonstrations of Animation Stand, CameraMan, Cinemation, DynaPerspective, formZ, HyperSpace, Infini-D, Life Forms, Macromind Three-D, MacroModel, Modelshop II PresenterProfessional, Promotion, Ray Dream Designer, Sculpt 3D, Sketch, and Stratavision 3D. This gives you a chance to really see what's possible on a Mac (and probably a Quadra, while you're at it) and compare the different attributes of what are complex, and very often expensive, applications.

PHOTOSHOP ON DISC

The "CPM Graphic Tutor 2" for Adobe Photoshop v2.5, from Casey's Page Mill is expensive at $489, and lacks any paper back-up documentation, but it's a very well done, crystal clear, in-depth tutorial of Adobe's cornerstone image editing program.

You don't need to have the Photoshop application to run these animations. What you see on the screen is the window of the Photoshop function of your choice. A (male) voice narrates the guidance as you see the cursor move through the steps of the operation, with every check box and option accounted for. In many of them, you can choose each tool that you want to learn about in that function, and the action will illustrate the steps to be taken. There is a VCR-like control panel that allows you to stop, start, go forwards and backwards; a thermometer guage indicates where you are in the material. It's sometimes hard to navigate from one section to another, but this is a very authoritative and methodical source for really learning those elusive details of Photoshop.

ADOBE PREMIERE ON DISC

Hayden's *Adobe Premiere: Classroom in a Book/for Macintosh* is a $44.95 198-page book with a CD-ROM that is laden with step-by-step illustrations and examples of Adobe's QuickTime motion document editing program.

You *do* need to have the Premiere application. Instead of just an application tutorial, this package functions much as a progressive post-graduate course in using Premiere; it can also be used as a supplement to the Adobe documentation to help you master most of the basics.

There are valuable reiterations of many basic techniques, but the book is really project-oriented, centered around an international theme. The projects include a countdown (with and without audio), rolling credits, special effect movie, animation, documentary, and an annual report. If you are really serious about desktop video with QuickTime, this will be an invaluable ally. *Adobe Photoshop: Classroom in a Book/for Macintosh,* from Hayden, is also available.

DESKTOP VIDEO

The $34.95 *MacWEEK Guide to Desktop Video* by Erik Holsinger from Ziff-Davis

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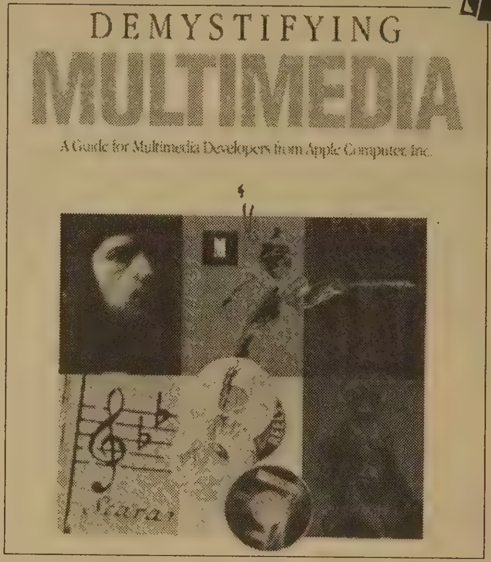

Press is a 305-page overview and workbook for desktop video production on the Macintosh platform. You are guided through computer-aided video in context with video technology and traditional production, introducing basic Mac software and hardware as tools for achieving digital video on the desktop, from preproduction and production to post-production. Holsinger explains QuickTime, shows how to create video graphics and titling, and provides new technologies and product listings. The enclosed CD-ROM includes a great wealth of software demo programs, clip-art samples, interactive tutorials, and interactive versions of major graphic examples.

DEMYSTIFYING MULTIMEDIA

All right, maybe this should have been the first selection—but unlike the previous products, it's only paper. *Demystifying Multimedia: A Guide for Multimedia Developers From Apple Computer, Inc.* is a $25, 284-page book from Apple with the look and feel of a black-and-white *Wired.* It is organized as process-oriented case studies, while examining and revealing the roles of audience, clients, managers, experts, and practitioners. One of the best things about the book is its many interviews with multimedia movers like Doug Camplejohn, Dan Backus, Mark Schlicting, Kristina Hooper-Woolsey, and Joe Sparks.

This is also one of the worst examples of icons-gone-amuck, proving that even the professionals are not immune to bad design.

The projects it discusses include electronic books, kiosks, multimedia databases, interactive training, music and games, art and performance, presentations and marketing, and productivity and authoring tools. The book's Resources Index is a very good access and contact list for many books, periodicals, associations, conferences, and software and hardware products. ■

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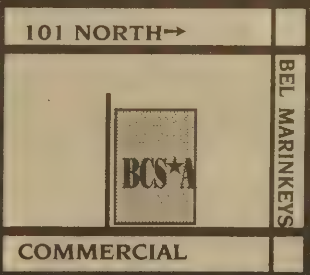

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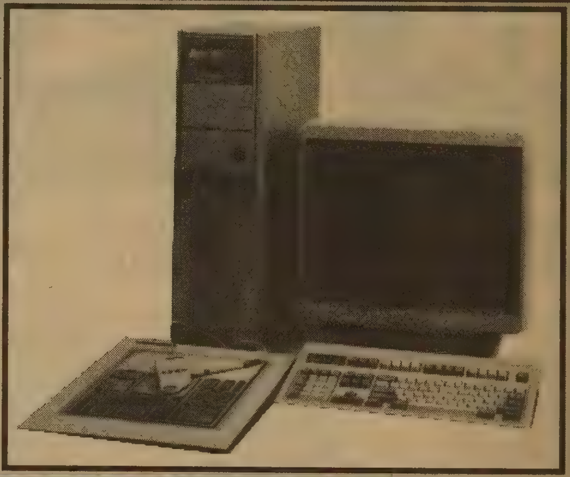

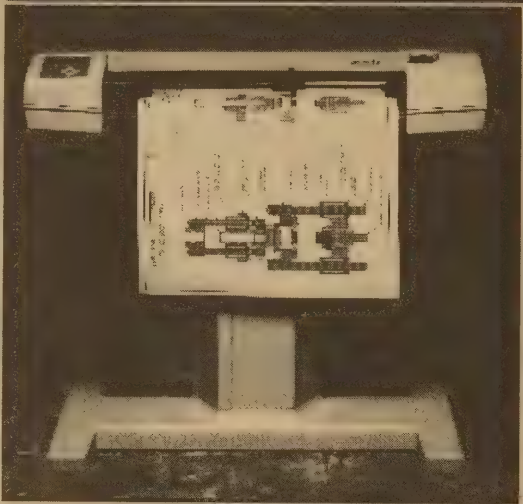

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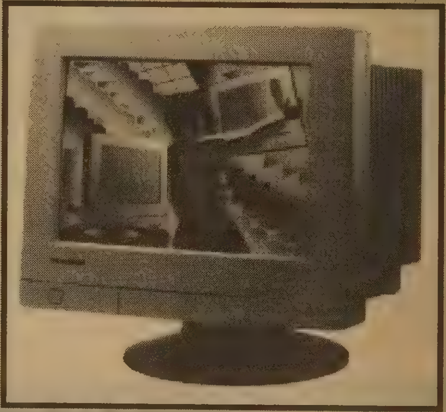

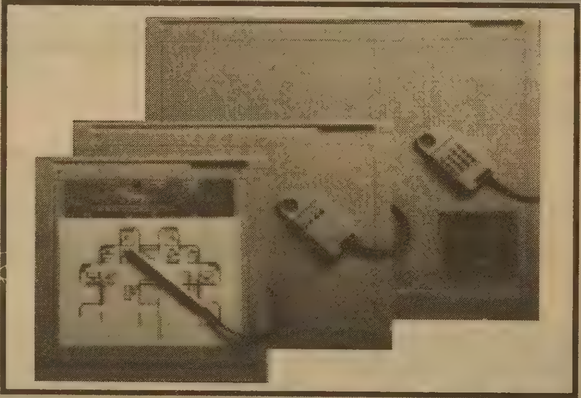

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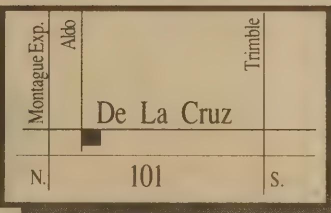

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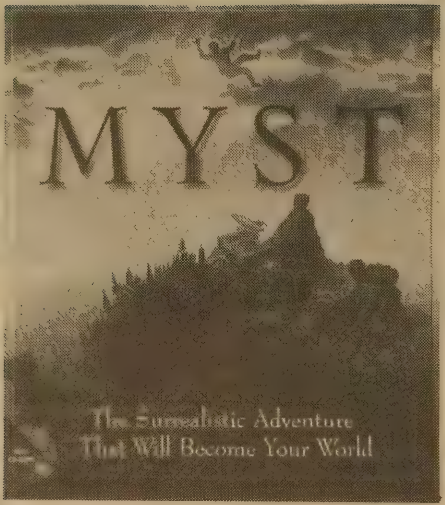

MULTIMEDIA 101

MYST:

A Multimedia Adventure

BY JONATHAN E.

> *Granted, at times of intense awareness I see this web of hieroglyphics breathing just beneath the surface of things, an ineffable fabric of energy, signs which could surely be deciphered by somebody, somewhere, an ancient language pointing me toward the scattered meaning of things. If only things talked. But perhaps I'd grow tired of listening to trees as well, or stone chairs or ceiling fans, or even the moon.*
>
> — **Stephen Beachy, *The Whistling Song***

MYST

Myst is a fiendishly difficult, engaging, frustrating, and fascinating CD-ROM game that requires great powers of observation and interpretation. You must see the "web of hieroglyphics breathing just beneath the surface," decipher them, and discover "the scattered meaning of things." The language used consists of ancient and archaic symbols in a setting that's at once primeval and high-tech. Objects do not talk with English words in this game, but sounds play a role, both providing clues and, when correctly manipulated, acting as keys to unlock doors and fly spaceships. And, as engaged as one can become in this world, the limitations of the CD-ROM medium can still be tiresome.

The objective of Myst is itself a mystery in the beginning. The game comes with virtually no details beyond a user's manual containing the technical requirements, very few keyboard commands, simple instructions on moving around and manipulating objects, a sealed envelope of "Three Myst hints" with a "Warning! Open only if in dire need ...," and "The Journal of Myst," a book for recording your observations, with only the barest advice printed on the first page. It reads in part, "You must let Myst become your world. The land will offer up the answers you seek, if only you have eyes to see, ears to hear...and wits to remember. ... Record every scrap of evidence you find, no matter how insignifi-

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cant it may at first appear. Words, numbers, pictures, patterns...the form is not important. In the end, these shards of broken worlds may be your best hope of discovering the identity of that betrayer of ages past, that destroyer of cultures, that defiler of sacred traditions."

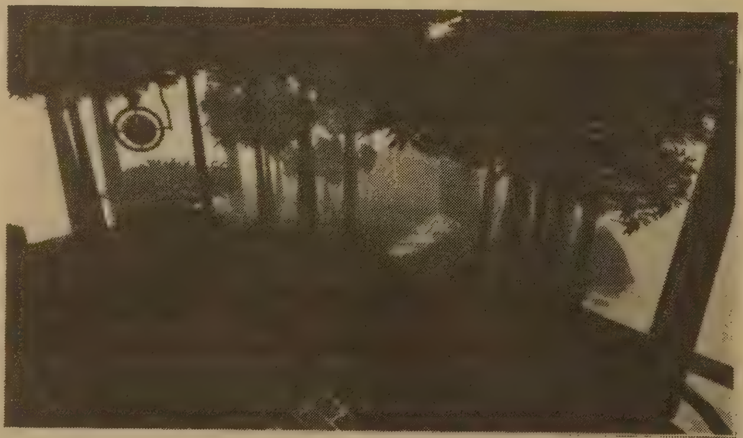
The only other advice you get comes from the short introduction in the manual that states, "Myst is real. And like real life, you don't die every five minutes. In fact you probably won't die at all. There are no dead-ends, you may hit a wall, but there is always a way over or around. ... The puzzles you encounter will be solved with logic and information—information garnered either from Myst or from life itself. The key to Myst is to lose yourself in this fantastic virtual exploration, and act and react as if you were really there." From then on, you are on your own to figure out what this is all about.

PLAYING THE GAME

Once you've copied the Myst icon and files folder on to your hard disk and double clicked on the icon, the game begins with music and credits, much like a movie. However, interactivity mercifully lets you skip them with a mouse click (if you do, you'll also miss a spectral voice bemoaning the loss of the speaker's book of Myst, worrying about whose hands it may fall into, and warning that "perhaps the ending has not been written").

Of course, it's your hands that the book has fallen into, as the screen shows by becoming the book, which opens to a page with an aerial view of an island, the island of Myst. Click on the image and you're transported through a QuickTime movie window to a dock with a sunken ship alongside. You're now free to look around and explore the island—and a powerfully evocative place it is.

As you explore, you discover a giant pair of gear cogs, a planetarium, a library, a rocket ship, a powerline from a set of underground generators to the rocket ship, a wooden shack with a boiler and a combination-lock safe, a redwood tree encircled by a brick wall, a clock tower just off the island, a small pool with a sunken miniature ship, a series of columns with strange symbols (astronomical constellations, perhaps) embossed upon them, and an underground chamber with a shimmering pool of water. Along the way, you encounter a series of strange boxes with a switch on top of each. You also find a sheet of paper with a note that you can pick up and read. At first, it doesn't make much sense. Later, when you've explored more fully and considered various other clues, it's an important signpost to the crucial point—the way to get off the island.



NAVIGATION

Navigating is relatively easy. Initially, you're pointed in what might be considered to be the right direction, although you later have to do some backtracking; once you know at least some of what's going on, there are quicker ways of covering the terrain on repeat games. Basically, the pointing hand will point either straight ahead, left or right, and a click will take you in that direction or rotate you around. Sometimes you can look up or down. It's a good idea to search all around to get some sense of what's where.

The major difference between real life and the computer world is that the computer world totally defeats my real-world sense of direction, which is quite strong—I constantly felt as though I'd been blindfolded and spun around, as in a game of hide-and-seek. This was especially disorienting in claustrophobic passageways, and it was often difficult to know whether I'd turned around 180° or only 90° to face a branching tunnel.

You can only rotate in 90° or 180° increments, and you may travel a step or several yards with a click. If the location is not important, you can't get there, but you don't learn this without repeated clickings that take you nowhere. You can go behind some objects and structures but not others.

The biggest problem is that the pointing hand is active in different areas on different screens, although it's the same pointing hand and the only options are going straight ahead or turning around. It also becomes frustrating when you want to just cut across a room but instead have to take a step back, rotate through 90° or 180° and then click yourself forward. This tedious clicking several times to complete a simple maneuver must be repeated again and again at certain stages. Once you've figured out a little of the strategy, this becomes pure finger exercise. There is a "zip mode" that allows you to travel quickly between places you've already been, but it doesn't do anything in tight quarters such as a room.

Clicking on an object will bring you closer, and clicking to the side will generally distance you. You can also manipulate objects when you're close enough by clicking on them. You can take books off a shelf and flip through the pages, turn switches on and off, and change the settings of counters. The pointing hand will turn to a grabbing hand when you can drag an object in some way such as pulling levers or turning valves or wheels.

VISUAL DELIGHT AND WHIMSY

Myst is beautifully rendered. Stylistically, it's drawn in a fantastical but semi-realistic 3-D style. The exterior landscapes were painted in grey scale with the lighter areas representing the higher terrain, extruded into 3-D models with StrataVision and then painted with textures as rocky or grassy areas. Trees and other details were then added. The interiors were also created as 3-D models in StrataVision. The result is that the player sees the rooms and exteriors as a series of screens from virtual camera angles. It's an extremely detailed world with small objects abundantly represented. Parts of it are a delight to look

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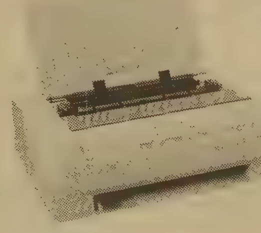

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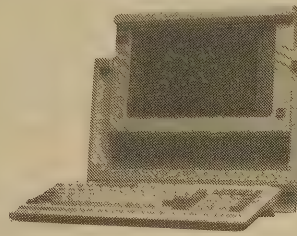

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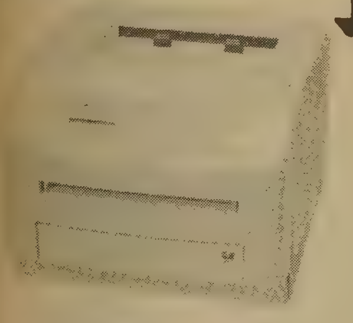

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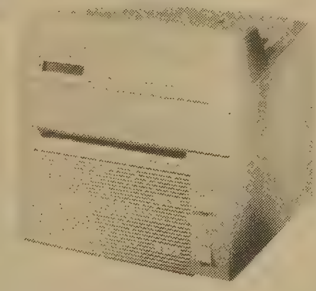

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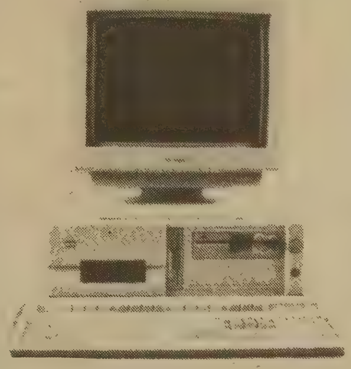

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FINANCE, LEASING, UPGRADE, TRAINING AVAILABLE at, while others are a little scary. The world is particularly immersive because the menu bar is hidden unless called up; all you see on the screen is the story.

In order to overcome the slow speed of CD-ROMs, the color was cut down to 8-bit, with adaptive color palettes for each area of the game. With the use of these palettes, the color looks close to 24-bit. In addition, the still images as well as the movies were compressed using QuickTime compression. Some of the ground textures are a little patchworky; the tree leaves are a bit on the thin side; occasionally a pool of water shimmers on one screen but not on another, or the water doesn't extend quite all the way to the edge of the pool. However, these are relatively minor details and, as with a visit to the theater, some suspension of disbelief is in order.

These deficiencies are more than made up for by the charming details—birds silently appearing in the distant grey sky, or butterflies fluttering down a wooded path. My favorite visual effect was the match that lights the boiler and then burns out, dropping to the ground, after you leave the room.

The transitions from one screen to the next, or from one virtual camera angle of the 3-D model to the next, can be set from 1 to 4. Level 1 is the fastest with no visual effects, while level 4 is slower but offers some beautiful effects. Different Macs respond differently to the different levels. On a slower machine one can often see the "join" between the two screens as the image wipes, leading one to erroneously believe that there are suddenly two doors instead of one. This can be confusing and frustrating—you find yourself looking for the second door, not quite sure what you can trust in this make-believe world.

Of particular note is the imaginative use of QuickTime movies to create books with moving pictures inside them, secret messages and other images emerging from pools, rocket navigation systems, and remote surveillance devices. The dropping of pages one by one as you find them into books to progressively reveal the full QuickTime movies within is sheer genius. If you ever wondered how QuickTime could really be used in its current primitive state, Myst provides the answer.

SOUNDS

Myst is full of sounds, both environmental ambience and sounds that provide a specific function in the story. You can toggle the environmental sounds off or on from the keyboard—at one particularly frustrating and claustrophobic location, I found it necessary to turn them off because everything was just too intense. However, many of the environmental sounds are more bucolic—waves and water, birds, the wind. The important issue is that the sounds really add to the atmosphere.

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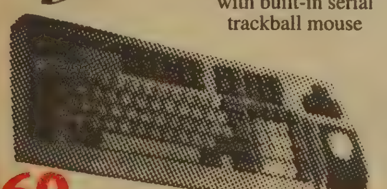

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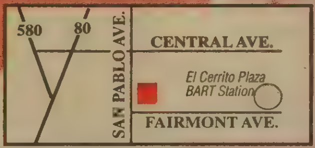

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cific events. You must reproduce some of these sounds with visual onscreen keyboards or slider controls to obtain a desired result. In at least one case you must deduce the required sounds from a diagram and then reproduce them by ear. This appeared to be overly challenging, but in fact was just one more fun hurdle to leap.

IMAGINATION & EXECUTION

Rand and Robyn Miller, Myst's creators, previously produced Manhole, Cosmic Osmo, and Spelunx and the Caves of Mr. Seudo. The imagination of those earlier products is multiplied manyfold in Myst, their first goal-oriented or primarily adult-oriented game. The level of invention, and the integration of those inventions into cohesive worlds, are quite extraordinary. The use of symbols to communicate basic meaning and to enlarge that meaning is also most impressive.

> I recommend Myst without reservation to anyone with the requisite system and a lot of time to engage in exploration and practicing intellectual agility.

This is not an easy game to play, but it involves you in an ongoing process of understanding that is both fun and challenging. You can save games to avoid the need to start at the beginning every time, although this does not restore you to the precise location at which you left the game. I recommend Myst without reservation to anyone with the requisite system and a lot of time to engage in exploration and practicing intellectual agility. You could probably spend weeks at the game before you discovered everything there is to discover. Myst could be one of those "killer apps" that make the hardware worthwhile.

The CD-ROM contains over 520MB of files; the largest file is 17,559K. Despite this size, it's reasonably fast, although once you know your way around, you may find yourself champing at the bit a little. The CD-ROM also contains The Making Of Myst, an interesting fourteen-minute, 71,928K QuickTime movie.

TECHNICAL DETAILS

Myst requires a 256-color Macintosh, 4MB of RAM (2500K of free RAM), System 7.0.1 or higher, and 3MB of hard disk space. A Windows version is currently in development. If you get really stymied or are sufficiently pessimistic about your chances to solve the puzzle, there is also a Myst Official Game Secrets hint book available.

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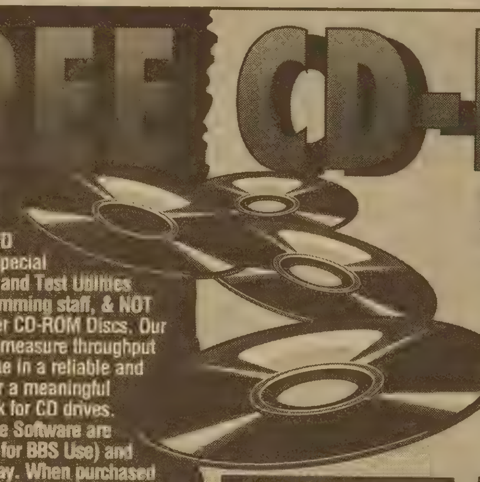

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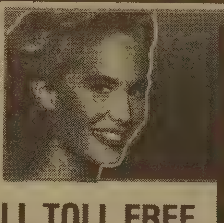

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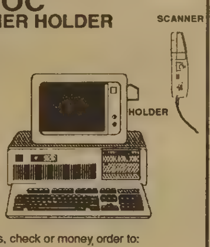

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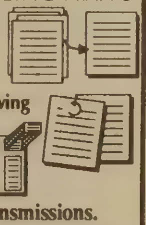

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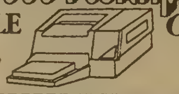

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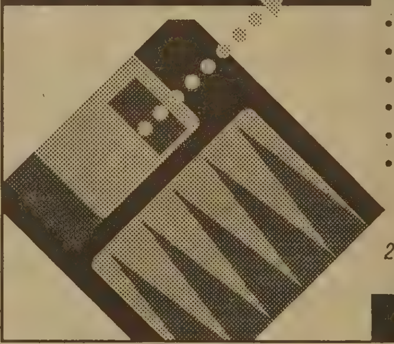

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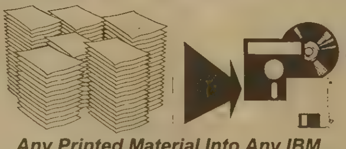

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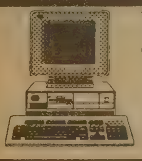

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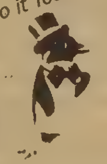

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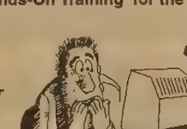

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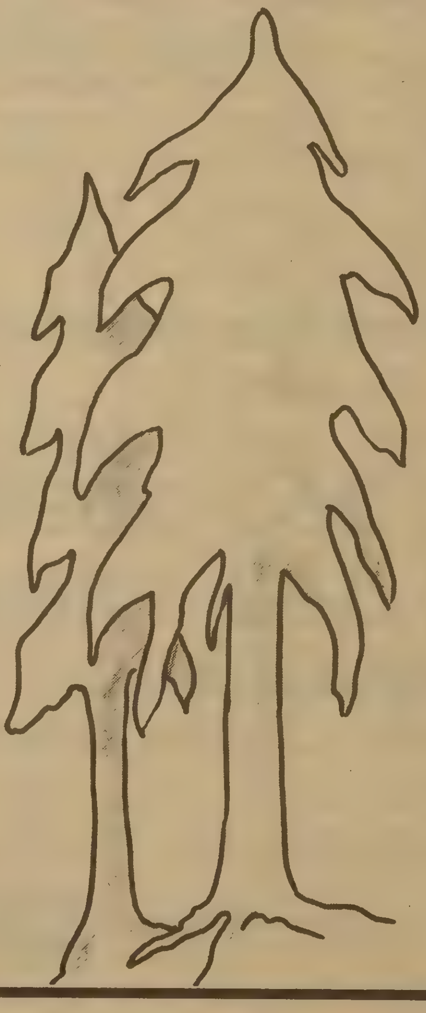

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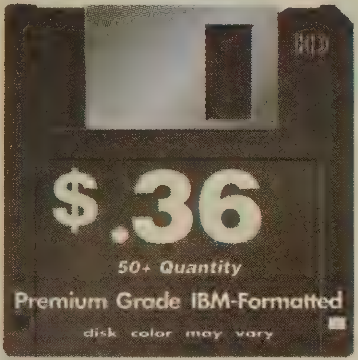

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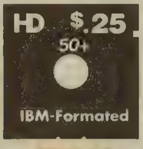

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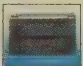

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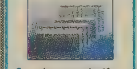

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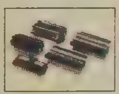

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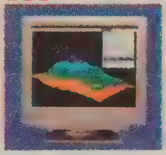

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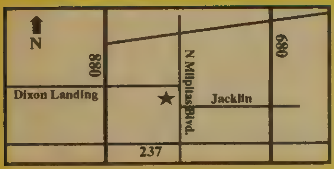

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Continued from page 68

all charge access time for use of the forums.

Three factors will influence how much time in these forums will cost: per-hour access charge, offline reader software (so you can just log on and gather up all new material, download it, and log off), and whether the service supports high-speed modems and/or charges extra for their use. These factors are interdependent. The online service with the lowest per-hour access charge will not necessarily be the least expensive to use.

For example, an online service that charges $2/hour for forum access but has no offline reader software will cost more in the long run than an online service that charges $4/hour but has offline reader software that takes only fifteen minutes to download the equivalent of an hour's reading online. The user will pay $2 for an hour's reading on the former service, but only $1 for an hour's reading on the latter.

All the national online services except America Online have offline reader software. Most of it works as efficiently as the offline readers for BBS software, such as QWK readers.

By the way, offline reader software also includes the ability to reply offline, automatically call the service, and upload replies to the appropriate notes in the appropriate conferences. Prodigy's offline reader software includes only the ability to download selected postings—users have to locate the specific notes in order to upload replies.

In addition to these tangible factors of pricing, offline readers, and high-speed access, there are intangible factors as well—the user's motivation to use the system (making even the most awful software inconsequential to some users), comfort with the interface, and knowledge of other users online make a difference, as well as Internet email or full Internet access. Another issue is local access numbers—if the only way you can access a service is with a long-distance phone call, the added cost of using it rises considerably.

What follows is a very general description of the national online services. It is not meant to be comprehensive and is slanted somewhat toward the forum user, as opposed to those who would mostly use financial and/or travel services, for example. (All of the national online services have some combination of financial, travel, and reference services which may or may not be included in the basic subscription price.) It includes not just my impressions, but impressions I've picked up from the public postings of other users.

AMERICA ONLINE

America Online has a wide array of forums, groups, services, and reference materials. It is most widely known for its chat and download features, and is developing a reputation for its array of publications online—the *San Jose Mercury News*, the *Chicago Tribune*, *TIME Online*, *The Atlantic Monthly*, *Omni*, and others. There are also real-time conferences with invited guest "speakers."

America Online is the current "rising star" among the online services, and the software is being rewritten to accommodate more users. In the meantime, evening access in particular can be quite slow. Users have also complained about the lag time between the announcement of "planned" 9600-baud modem access and its implementation.

In general, AOL forums haven't been its strong feature (chat is more popular), but that is changing in some areas. It's worth looking around to see if there are active areas of topics that interest you.

Interface: Graphics, Mac, and PC; PC interface is either Geoworks (provided) or Windows.

Subscription: $9.95/month; includes five free hours each month. No prime-time/non-prime price differential.

9600-baud modem access: Announced quite some time ago, but not yet available. No premium charge for 9600-baud access is planned.

Offline reader software: None

Email limitations: No email limitations

Internet email gateway: Available at no extra charge to send or receive Internet email. Other Internet services announced but not yet in place.

Customer Service: 1-800-827-6364 (voice)

COMPUSERVE

CompuServe has the widest array of forums, groups, services, and reference materials. It is particularly noted for its large number of computer software and hardware vendor forums.

With efficient use of an offline reader, membership on CompuServe does not have to be a drain on the budget, but it's not an "economy" service by any means. On the other hand, it does have features and forums not found elsewhere, and it's indispensable for business computer users. Even though you'll notice your CompuServe bill every month, for many people it's a very good value.

Interface: Text; GUI and text-based offline readers available

Subscription: $8.95/month basic services. Premium services are an additional $8/hour. No prime-time/non-prime differential.

9600-baud modem access: Available; 9600-baud and 14.4-baud access are $16/hour for premium services (twice the cost of 2400-baud access).

Offline reader software: Several from which to choose

Email limitations: Users pay to send email to other CompuServe users. A $9 email allowance is included in the basic services subscription, which is roughly equal to sixty email messages of three pages each.

Internet email gateway: Available. There is no charge to send Internet email from CompuServe, but email received by a user at CompuServe is charged against the email allowance above.

Customer Service: 1-800-848-8199 (voice)

DELPHI

Among the national online services, Delphi has the smallest number of forums, groups, services, and reference materials; however, users can start their own public or private groups, known as "custom forums" for a small monthly fee. The result is quite eclectic. The forum software is rudimentary BBS-type.

Delphi has forums and real-time chat, but it has distinguished itself as a low-cost Internet provider nationwide. The Internet area is easy to use; a Delphi account and one of those "how to use the Internet" books would be a great way to learn how to get around. There is a very active Internet forum for help. It's a comfortable venue for both novices and "old hands" who don't need much help.

Word is out about Delphi, though, and getting around in the evening can be very,

very slow.

Interface: Text

Subscription: $20/month for twenty hours. $1.80/hour after that. Full Internet access is an additional $3/month. Prime-time use (6 am to 7 pm) is an additional $9/hour.

9600-baud modem access: Available at no extra charge

Offline reader software: Available

Email limitations: None

Internet email gateway: Available. Full Internet access available

Customer service: 1-800-695-4005 (voice)

GENIE

GEnie has an adequate number of forums, groups, services, and reference materials, but not the depth and breadth of CompuServe (or the cost), so again it's a service you'll have to visit to see if it meets your particular needs.

> ***Be careful about going into a service unprepared for the costs of learning and enthusiasm. Many people have suffered "sticker shock" at the end of their first month online.***

GEnie has a number of tight-knit but friendly groups online. If you are interested in meeting new people online, GEnie can be a good place to do it. Enthusiastic GEnie users point out that with the use of the offline reader software, it is possible to read and contribute to forums within the "four free hours" included in the basic subscription price.

Every couple of years or so a big "censorship" conflict on GEnie leaks out onto other services, but given the dearth of complaints about the service otherwise (except, again, for system slowness in the evening), GEnie users seem to be a contented group.

Interface: Text

Subscription: $8.95/month "basic services," includes four "free" hours each month. Additional hours are $3/hour. Prime-time use (8 am to 6 pm) is an additional $9.50/hour.

9600-baud modem access: Not available

Offline reader software: Available

Email limitations: Writing email online is charged at $3/hour.

Internet email gateway: Available. Same terms as above.

Customer service: 1-800-638-9636 (voice)

NATIONAL VIDEOTEX NETWORK

National Videotex Network has the fewest number of offerings among the text-based online services, but since it has served as a haven for Prodigy refugees, it does have some very active forums.

After over a year of being the last bastion of flat-fee service, NVN recently raised its prices and started charging for timed access. Without a wide base of active forums, it was an adequate service when it was inexpensive. Now that users have to "watch the clock," the price increase will probably slow its growth dramatically. It remains to be seen how its pricing scheme will affect its utility as a national Internet provider.

Interface: Text

Subscription: Several pricing plans. Call customer service for up-to-date pricing information.

9600-baud modem access: Available at no extra charge

Offline reader software: Available

Email limitations: Sixty messages per month, one hundred lines each. Additional messages 20 cents each.

Internet email gateway: Yes; Internet email is counted as regular email, above. Other Internet services announced but not yet in place.

Customer service: 1-800-336-9096 (voice)

PRODIGY

Prodigy has it all—forums, groups, services, reference materials, and on-your-screen advertising, but it's running out of users who will pay its premium prices for "PLUS" areas. Its forums, known as "BBSes," have been decimated by Prodigy's price increases, but there are accountholders who get along fine using the basic services.

Prodigy is adequate for someone who just wants to look around at things online, and maybe play a few of its free games. But the list of "gotchas" has become rather long. The "free sign-up kit" which offers the "first month free" isn't "free" unless the new user cancels Prodigy within the first couple of weeks of signing up. Use up the whole "free month" and you'll receive a bill you'll be expected to pay. The PLUS areas are not included in that "free month"—a little detail that more than one new user has missed. Buttons on the opening screens (or deeper) can lure unsuspecting users into PLUS areas with no notification in advance. If you choose a billing-by-the-minute plan, you're paying for a slow system and a good deal of idle time. Billing problems can be intractable. Every service has had billing problems at one time or another, but they seem to be a regular occurrence on Prodigy.

There are still a couple of active forums; most get almost no traffic. Life on Prodigy just gets more and more "gimmicky."

Interface: Graphics

Subscription: Prodigy has announced a number of "pricing plans"; call customer service for up-to-date pricing information. There is no prime-time use differential.

9600-baud modem access: Should be available to most local nodes by the end of the year; no extra charge.

Offline reader software: Available. Kludgy, slow, and does not post responses to their intended "parent notes." That has to be done manually. Windows offline reader software announced.

Email limitations: Depends on the pricing plan chosen.

Internet email gateway: At this writing, it is being alpha tested, but is not yet generally available to all users. It is believed that users will be charged for sending and receiving email, but price is not yet firm.

Customer service: 1-800-PRODIGY (voice) ■

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MicroTimes ONE HUNDRED

Nominations must be received by 9 am, Wednesday, December 1, 1993.

In keeping with our time-honored tradition, our January issue will feature our annual list of leaders and unsung heroes who played a key role in the personal computer industry in 1993.

We'll have plenty of PR packets, annual reports, company backgrounders, and other or-thodox information sources to help us compile the list. But there are plenty of worthy accomplishments (to say nothing of interesting perspectives) that never show up in these sources, which is why we want to hear from you.

Tell us who you think made a difference in the industry in 1993, whether they're as well known as Bill Gates or as obscure as the garage entrepreneur down the street. Tell us *why* you think we should put them on the list, what particular accomplishment makes them noteworthy. And please tell us where and how we can contact your nominee for more information.

We will give ten free one-year subscriptions to *MicroTimes* to randomly drawn respondents to this survey, so if you'd like to enter the drawing, please be sure to include your name and address at the end of this form.

In order to be considered, your nomination must be received in our Pleasant Hill office by 9 am on Wednesday, December 1. Nominations may be sent by US Mail, fax, or electronic mail.

Thanks for your help!
—eds.

BALLOT

Name of your nominee: ______________________________

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Why should this person be on the list for 1993?

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Your name, address, and phone number (optional—required for drawing):

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Send your nominations to:

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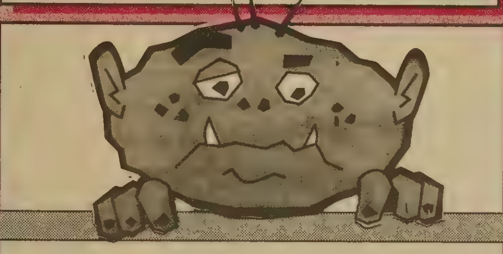

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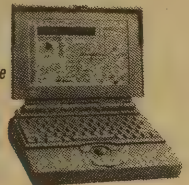

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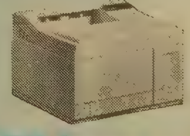

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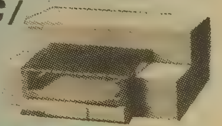

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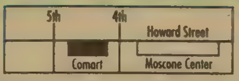

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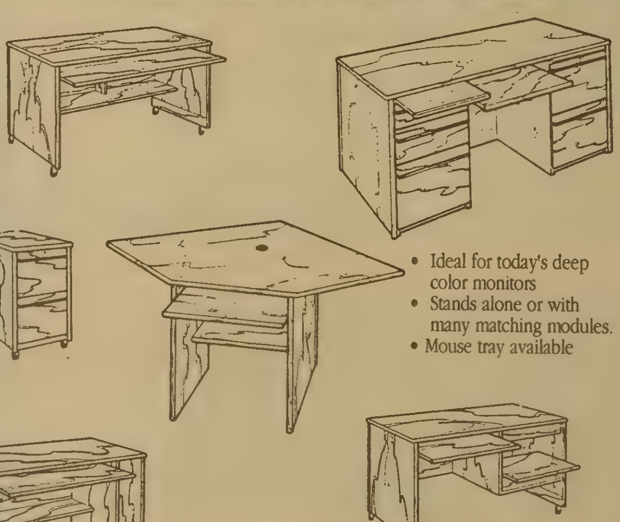

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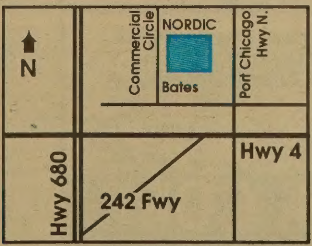

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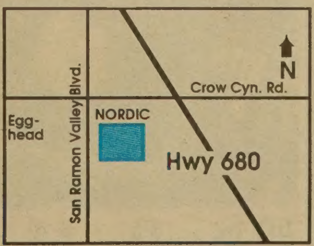

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Continued from page 242

it helps to be aware of the reasonable options available.

On the downside, *The Software Legal Book* is skimpy in its analysis of tax implications of these agreements, so you'll still need the services of a friendly and reputable CPA. (Shafer Books, Inc., 139 Grand St., PO Box 40, Croton-on-Hudson, NY 10520. 914/271-6919)

THIS IS A MAC. THIS IS SUPPOSED TO BE FUN

By: Arthur Naiman and John Kadyk
Published By: PeachPit Press
List Price: $15
Reviewed By: Michael Robin

Too much success can have its disadvantages. Take the *Macintosh Bible*, for instance. Yes, it is one of the most popular and successful books about Macintosh—or for that matter, any computer. Not just its style and organization have been copied, but even the inspiration in choosing its name has been copied. In all of its success, the *Macintosh Bible* has grown to over 1200 pages, costs $32, and often intimidates many Mac beginners.

Watching the growth in the total number of Mac users and the number of new users scared by the *Macintosh Bible*, Arthur Naiman (MacBible creator), John Kadyk (editor) along with "a cast of thousands" went back to the drawing board to come up with a solution—*This is the Mac. It's supposed to be fun.* They have whittled away the intermediate and advanced information, leaving roughly three hundred fifty pages of information and helpful hints for the new and the soon-to-be new Macintosh user.

After introducing you to the Mac, Part Two looks at hardware—both the Mac and peripherals—and what the differences are. Included in the discussion of hardware is a section on "Protecting your Mac (and yourself)" that discusses such things as the importance of a surge protector, keeping your Mac away from direct sunlight, and the problems (along with some solutions) associated with the ergonomics of computers and their use.

The remainder of the book focuses mainly on software, including chapters on Basic Mac Software, Fonts, Utilities, Word processing, Handling Data, Communicating with other computers, and Software buying tips.

Subtitled "Everything beginners need to know about learning the Mac, drawn from the most popular Mac book ever," *This is the Mac* offers new users an informative and easy-to-use book for understanding their Macintosh. (PeachPit Press, 2414 Sixth St., Berkeley, CA 94710. 1-800-283-9444)

THE METAPHYSICS OF VIRTUAL REALITY

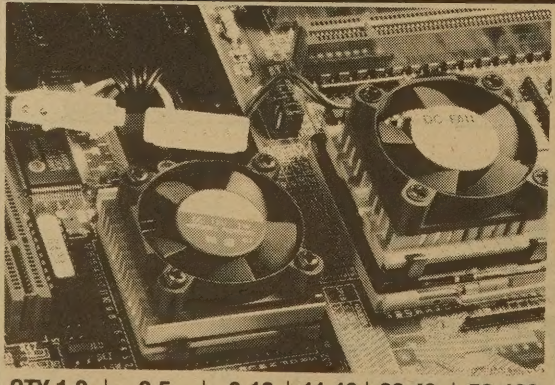
Written By: Michael Heim
Published By: Oxford University Press
List Price: $21
Reviewed By: Chris Okon

In *The Metaphysics of Virtual Reality*, philosopher Michael Heim attempts to explain virtual reality by asking "how much can humans change and still remain human as they enter the cyberspace of human realities?"

A self-described "Techno-Taoist," Heim explores the dialectics of body-mind, man-machine, science-religion, reason-emotion and space-time that weave through our "mental marriage to technology." Placing virtual reality in a historical context, he visits the well of Plato, Kant, Heidegger, Leibniz, McLuhan, Ong, Boole, and other philosophers who have investigated the nature of language, experience, and reality.

The first five chapters of the book explore the profound effect digital technology has already had on our lives, especially in the way we represent what we know. "We can be perfectly logical yet float completely adrift from reality," he reminds us as we search for and construct Boolean-derived worldviews on our computers. Armchair arguments about computers as friend or foe do not touch on what is happening to us through computerization. "The danger of technology," says Heim, "lies in the transformation of the human being...." Beware the digital undertow, for it is stronger than you think.

The remaining five chapters tackle the more recent ontological shift from digital to virtual realities. The popular image of the begoggled and suited VR cowboy is only one of seven manifestations that include simulation, interaction, artificiality, immersion, telepresence, full body immersion and networked communications. "We do not even realize when we are trapped in our minds and cybersystems," Heim reminds us, drawing heavily on images from William Gibson's *Neuromancer*. A virtual world can be virtual only as long as we can contrast it with the real, anchored world. To maintain our footing, we must get in touch with the core wisdom of the body as taught in Eastern practices such as yoga and Tai Chi. (Oxford University Press, Inc., 200 Madison Ave., New York, NY 10016)



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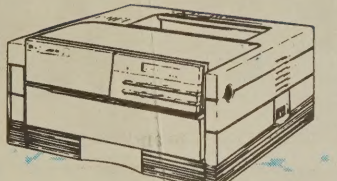

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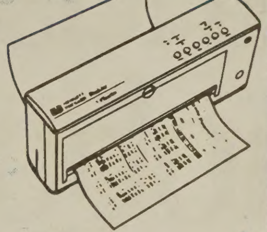

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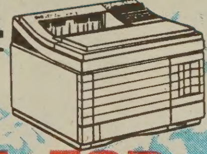

- Fast 8ppm printing for complex documents
- 45 Scalable Fonts • 2MB RAM
- 600 DPI Print Quality at a 300 DPI Price
- 300 Page Paper Capacity
- Ideal for Windows & Graphics
- Optional Full Network Capabilities

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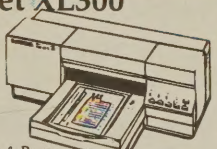

- 300 DPI Plain Paper
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- Prints on Transparency Film & Paper
- 360 Colors addressable, over 16.5 million color available

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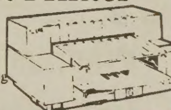
300 DPI LASER QUALITY



- Scalable Fonts for MicroSoft Windows 3.0
- Water Resistant Ink
- Character Kerning for Improved Letter Spacing
- Whisper Quiet • Three Year Warranty

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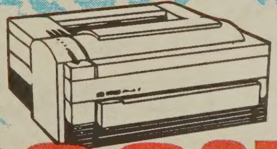
LaserJet 4L



- 26 built-in scalable typefaces let you shrink and enlarge type to thousands of sizes.
- 300 DPI Laser printing with HP Resolution Enhancement technology and microfine toner for smooth, sharp text and graphics.
- 1MB standard memory with Memory Enhancement technology effectively doubles your printer memory.

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DeskJet 1200C

- 600 x 300dpi black text at up to 7 pages per minute produces high-quality output at business speed.
- 300dpi color at 1 to 2 minutes per page creates fast, high-quality output with bold, brilliant colors and true black.
- Plain-paper printing for both black and color saves money and allows convenient use of common office paper stationary.
- Built-in high-speed Centronics interface and optional HP JetDirect cards provide powerful, flexible connectivity.

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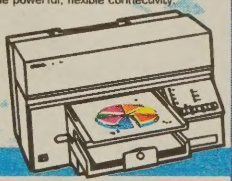
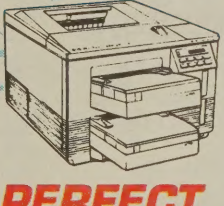


LaserJet 4Si

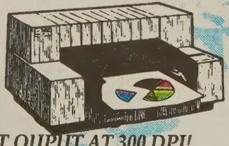


- Expandable and flexible, excellent for networks
- Fastest HP LaserJet printer at 17 ppm
- Multiple language capability with auto switching
- True 600 x 600 dpi printing with REtand microfine toner
- 75,000 page/ month duty cycle and flexible paper-handling
- HP quality and reliability

#1779583

THE PERFECT NETWORK SHARED PRINTER!

DeskJet 500C Color InkJet Printer

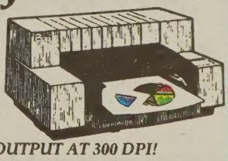


COLOR INKJET OUPUT AT 300 DPI!

- Prints in Color
- Black and White
- 100 Sheet Paper Feeder
- Whisper Quiet
- 3 Year Warranty #1632480

$398.95

DeskJet 550C Color InkJet Printer



COLOR INKJET OUTPUT AT 300 DPI!

- Prints in Color or Black and White at the same time
- 100 Sheet Paper Feeder • Serial/Parallel
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- Whisper Quiet • 3 Year Warranty #1733703

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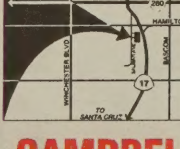
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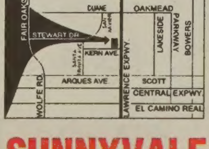
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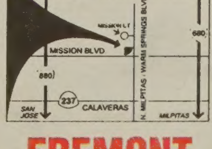
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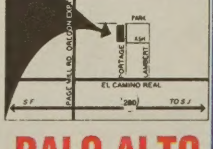
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QEMM 7 finds room nobody else can.

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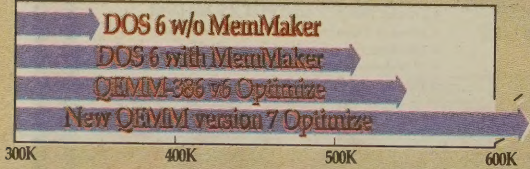
Sooner or later, you'll get an "Out of Memory" message. Whether you have 1 megabyte or 16.

TSRs and network utilities need memory right where your programs need it, too. It's called 'lower' or 'conventional' memory.

Adding RAM to your PC just gives you more expanded or extended memory — accessible to some programs, but not to TSRs like fax utilities, device drivers or network utilities like Novell NetWare. Fortunately, there's an easy software solution to 'out of memory' problems.

Have Your Cake and Eat it, Too.

The more memory you have, the more flexibility and reliability you can enjoy. Thanks to our patent-pending 'stealth' technology, QEMM finds as much as 96K more high memory than other memory managers.



We tested DOS with and without MemMaker and with QEMM 6 and our new QEMM 7 runs away from all of them. See details of test conditions below.

No one has yet been able to match our performance. No wonder QEMM outsells all the others *put together*!

QEMM™ puts the maximum memory right where your favorite programs need it so you can run them and TSRs without 'out of memory' problems or conflicts. That keeps your PC running smoothly and performance at its best.

> **"I needed another 32K for my favorite TSR. I added 2 megabytes. I still need 32K! What gives?"**

Protect Your Productivity; Keep Your Work Safe.

Any task, from programming to writing the company business plan to composing a personal letter, takes time and thought. Your PC is supposed to make that process easier; your output better. When you can't run your favorite grammar-checking TSR or have to get by without a vital network utility, you're sacrificing productivity.

Whether you're running MS-DOS, IBM™ PC-DOS, DR DOS, Novell DOS or MS Windows; one megabyte or eight, don't sacrifice; don't compromise; don't risk losing work.

QEMM comes with the new version of Manifest, the award-winning memory analyzer that helps you see how your PC works.

Managing your memory well is the best way to assure your work won't go to waste.

QEMM version 7 is the most powerful, flexible memory manager you can buy.

It's the utility that finds memory when nothing else can.

How we got the chart numbers CPU—486/33 ALR Power/business VEISA machine equipped with 16 megs of RAM and running MS-DOS 6. Comparisons were done using the following memory managers: QEMM 7, QEMM 6.02, MS-DOS 6 MemMaker. In addition to the driver (or drivers) required by each memory manager, the following drivers, DOS resources and programs were loaded for all comparisons: in the CONFIG.SYS file: SETVER.EXE, DOS=HIGH, FILES=20, BUFFERS=10, STACKS=0.0, MVSOUND.SYS, SNDBK12.SYS, SLCD.SYS, DOS SHELL=statement, in the AUTOEXEC.BAT file: VSAFE, MSCDEX, UNDELETE, LSL.COM, NE2000.COM, IPXODI.COM, NETX OR EMSNETX, MOUSE.COM, SMARTDRV.COM, PRTSCCAP.COM.

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